

Final_Project_Executable

March 18, 2021

```
[1]: import numpy as np
import pandas as pd
import matplotlib.pyplot as plt
import seaborn as sns
from scipy import stats
from sklearn import datasets
from sklearn.model_selection import train_test_split, cross_val_score
from sklearn.linear_model import LogisticRegression
from sklearn.metrics import accuracy_score, f1_score, roc_auc_score
from sklearn.model_selection import KFold
from sklearn.preprocessing import StandardScaler
from sklearn.model_selection import GridSearchCV
from sklearn.model_selection import StratifiedKFold
from sklearn.ensemble import RandomForestClassifier
from sklearn.tree import DecisionTreeClassifier
```

Preprocessing and Cleaning Data

Dataset: ADULT

```
[2]: # read the adult dataset with proper names for attributes
df_adult = pd.read_csv('Dataset/adult.data', names =
    ["Age", "Work_Class", "Final_Weight", "Education",
    ↪ "Education_Num", "Marital_Status",
    "Occupation", "Relationship", "Race", "Sex",
    ↪ "Capital_Gain", "Capital_Loss",
    "Hours_Per_Week", "Native_Country", "Income"])
```

```
[3]: df_adult
```

```
[3]:
```

	Age	Work_Class	Final_Weight	Education	Education_Num	\
0	39	State-gov	77516	Bachelors	13	
1	50	Self-emp-not-inc	83311	Bachelors	13	
2	38	Private	215646	HS-grad	9	
3	53	Private	234721	11th	7	
4	28	Private	338409	Bachelors	13	
...	
32556	27	Private	257302	Assoc-acdm	12	

32557	40	Private	154374	HS-grad	9
32558	58	Private	151910	HS-grad	9
32559	22	Private	201490	HS-grad	9
32560	52	Self-emp-inc	287927	HS-grad	9

	Marital_Status	Occupation	Relationship	Race \
0	Never-married	Adm-clerical	Not-in-family	White
1	Married-civ-spouse	Exec-managerial	Husband	White
2	Divorced	Handlers-cleaners	Not-in-family	White
3	Married-civ-spouse	Handlers-cleaners	Husband	Black
4	Married-civ-spouse	Prof-specialty	Wife	Black
...
32556	Married-civ-spouse	Tech-support	Wife	White
32557	Married-civ-spouse	Machine-op-inspct	Husband	White
32558	Widowed	Adm-clerical	Unmarried	White
32559	Never-married	Adm-clerical	Own-child	White
32560	Married-civ-spouse	Exec-managerial	Wife	White

	Sex	Capital_Gain	Capital_Loss	Hours_Per_Week	Native_Country \
0	Male	2174	0	40	United-States
1	Male	0	0	13	United-States
2	Male	0	0	40	United-States
3	Male	0	0	40	United-States
4	Female	0	0	40	Cuba
...
32556	Female	0	0	38	United-States
32557	Male	0	0	40	United-States
32558	Female	0	0	40	United-States
32559	Male	0	0	20	United-States
32560	Female	15024	0	40	United-States

	Income
0	<=50K
1	<=50K
2	<=50K
3	<=50K
4	<=50K
...	...
32556	<=50K
32557	>50K
32558	<=50K
32559	<=50K
32560	>50K

[32561 rows x 15 columns]

```
[4]: df_adult.dtypes
```

```
[4]: Age                int64
     Work_Class         object
     Final_Weight       int64
     Education          object
     Education_Num      int64
     Marital_Status     object
     Occupation         object
     Relationship       object
     Race              object
     Sex               object
     Capital_Gain       int64
     Capital_Loss       int64
     Hours_Per_Week    int64
     Native_Country    object
     Income            object
     dtype: object
```

```
[5]: # we're going to apply one-hot encoding to the categorical attributes
     df_adult_obj = df_adult.select_dtypes(include = ['object']).copy()
     df_adult_num = df_adult.select_dtypes(include = ['int64']).copy()
```

```
[6]: df_adult_ohe = pd.get_dummies(df_adult_obj)
```

```
[7]: Y_adult = df_adult_ohe["Income_ >50K"].astype(np.float)
```

```
[8]: df_adult_ohe = df_adult_ohe.drop(["Income_ >50K", "Income_ <=50K"], axis = 1)
```

```
[9]: X_adult = pd.concat([df_adult_num, df_adult_ohe], axis = 1)
     X_adult.head()
```

```
[9]:
```

	Age	Final_Weight	Education_Num	Capital_Gain	Capital_Loss	\
0	39	77516	13	2174	0	
1	50	83311	13	0	0	
2	38	215646	9	0	0	
3	53	234721	7	0	0	
4	28	338409	13	0	0	

	Hours_Per_Week	Work_Class_ ?	Work_Class_ Federal-gov	\
0	40	0	0	
1	13	0	0	
2	40	0	0	
3	40	0	0	
4	40	0	0	

	Work_Class_ Local-gov	Work_Class_ Never-worked	...	\
0	0	0	...	
1	0	0	...	

2	0	0 ...
3	0	0 ...
4	0	0 ...

	Native_Country_ Portugal	Native_Country_ Puerto-Rico \
0	0	0
1	0	0
2	0	0
3	0	0
4	0	0

	Native_Country_ Scotland	Native_Country_ South	Native_Country_ Taiwan \
0	0	0	0
1	0	0	0
2	0	0	0
3	0	0	0
4	0	0	0

	Native_Country_ Thailand	Native_Country_ Trinidad&Tobago \
0	0	0
1	0	0
2	0	0
3	0	0
4	0	0

	Native_Country_ United-States	Native_Country_ Vietnam \
0	1	0
1	1	0
2	1	0
3	1	0
4	0	0

	Native_Country_ Yugoslavia
0	0
1	0
2	0
3	0
4	0

[5 rows x 108 columns]

```
[117]: Y_adult.value_counts()
```

```
[117]: 0.0    24720
      1.0     7841
      Name: Income_ >50K, dtype: int64
```

Dataset: COVTYPE

```
[10]: # read the covertype dataset with proper names for all 54 attribute.
df_covtype = pd.read_csv('Dataset/covtype.data', names =
    ["Elevation", "Aspect", " Slope", "Hori_Dist_Hydro",
    ↪ "Vert_Dist_Hydro", "Hori_Dist_Road",
    ↪ "Hillshade_9am", "Hillshade_Noon", "Hillshade_3pm",
    ↪ "Hori_Dist_Fire", "Wild1",
    ↪ "Wild_2", "Wild_3", "Wild_4", "Soil_1", "Soil_2",
    ↪ "Soil_3", "Soil_4", "Soil_5", "Soil_6",
    ↪ "Soil_7", "Soil_8", "Soil_9", "Soil_10", "Soil_11",
    ↪ "Soil_12", "Soil_13", "Soil_14", "Soil_15",
    ↪ "Soil_16", "Soil_17", "Soil_18", "Soil_19", "Soil_20",
    ↪ "Soil_21", "Soil_22", "Soil_23",
    ↪ "Soil_24", "Soil_25", "Soil_26", "Soil_27", "Soil_28",
    ↪ "Soil_29", "Soil_30", "Soil_31", "Soil_32",
    ↪ "Soil_33", "Soil_34", "Soil_35", "Soil_36", "Soil_37",
    ↪ "Soil_38", "Soil_39", "Soil_40", "Cover_Type"])
```

```
[11]: df_covtype
```

```
[11]:
```

	Elevation	Aspect	Slope	Hori_Dist_Hydro	Vert_Dist_Hydro	\
0	2596	51	3	258	0	
1	2590	56	2	212	-6	
2	2804	139	9	268	65	
3	2785	155	18	242	118	
4	2595	45	2	153	-1	
...	
581007	2396	153	20	85	17	
581008	2391	152	19	67	12	
581009	2386	159	17	60	7	
581010	2384	170	15	60	5	
581011	2383	165	13	60	4	

	Hori_Dist_Road	Hillshade_9am	Hillshade_Noon	Hillshade_3pm	\
0	510	221	232	148	
1	390	220	235	151	
2	3180	234	238	135	
3	3090	238	238	122	
4	391	220	234	150	
...	
581007	108	240	237	118	
581008	95	240	237	119	
581009	90	236	241	130	
581010	90	230	245	143	
581011	67	231	244	141	

	Hori_Dist_Fire	...	Soil_32	Soil_33	Soil_34	Soil_35	Soil_36	\
0	6279	...	0	0	0	0	0	
1	6225	...	0	0	0	0	0	
2	6121	...	0	0	0	0	0	
3	6211	...	0	0	0	0	0	
4	6172	...	0	0	0	0	0	
...	
581007	837	...	0	0	0	0	0	
581008	845	...	0	0	0	0	0	
581009	854	...	0	0	0	0	0	
581010	864	...	0	0	0	0	0	
581011	875	...	0	0	0	0	0	

	Soil_37	Soil_38	Soil_39	Soil_40	Cover_Type
0	0	0	0	0	5
1	0	0	0	0	5
2	0	0	0	0	2
3	0	0	0	0	2
4	0	0	0	0	5
...
581007	0	0	0	0	3
581008	0	0	0	0	3
581009	0	0	0	0	3
581010	0	0	0	0	3
581011	0	0	0	0	3

[581012 rows x 55 columns]

```
[12]: df_covtype["Cover_Type"].value_counts()
```

```
[12]: 2    283301
      1    211840
      3     35754
      7     20510
      6     17367
      5      9493
      4      2747
      Name: Cover_Type, dtype: int64
```

```
[13]: # we are treating the dataset the same way as in CNM06 by treating the largest_
      ↪ class as positive and the rest as negative.
      # Y = 1 (True): cover type 1
      # Y = 0 (False): other cover types
      Y_covtype = df_covtype["Cover_Type"].astype(np.float)
      Y_covtype[Y_covtype != 1] = -1
      X_covtype = df_covtype.drop(["Cover_Type"], axis = 1)
```

Dataset: LETTER P1&P2

```
[63]: # read the letter dataset with proper names for the attributes
df_letter = pd.read_csv('Dataset/letter-recognition.data', names =
                        ["Letter", "X_Box", "Y_Box", "Width", "Height",
                        ↪ "On_Pix", "X_Bar", "Y_Bar",
                        "X2_Bar", "Y2_Bar", "XY_Bar", "X2Y_Bar", "XY2_Bar",
                        ↪ "X_Ege", "XEGVY", "Y_EGE", "YEGVX"])
df_letter
```

```
[63]:
```

	Letter	X_Box	Y_Box	Width	Height	On_Pix	X_Bar	Y_Bar	X2_Bar	\
0	T	2	8	3	5	1	8	13	0	
1	I	5	12	3	7	2	10	5	5	
2	D	4	11	6	8	6	10	6	2	
3	N	7	11	6	6	3	5	9	4	
4	G	2	1	3	1	1	8	6	6	
...
19995	D	2	2	3	3	2	7	7	7	
19996	C	7	10	8	8	4	4	8	6	
19997	T	6	9	6	7	5	6	11	3	
19998	S	2	3	4	2	1	8	7	2	
19999	A	4	9	6	6	2	9	5	3	

	Y2_Bar	XY_Bar	X2Y_Bar	XY2_Bar	X_Ege	XEGVY	Y_EGE	YEGVX
0	6	6	10	8	0	8	0	8
1	4	13	3	9	2	8	4	10
2	6	10	3	7	3	7	3	9
3	6	4	4	10	6	10	2	8
4	6	6	5	9	1	7	5	10
...
19995	6	6	6	4	2	8	3	7
19996	9	12	9	13	2	9	3	7
19997	7	11	9	5	2	12	2	4
19998	6	10	6	8	1	9	5	8
19999	1	8	1	8	2	7	2	8

[20000 rows x 17 columns]

```
[64]: Y_letter_unmod = df_letter["Letter"].copy()
X_letter = df_letter.drop(["Letter"], axis = 1)
X_letter.shape
```

```
[64]: (20000, 16)
```

```
[16]: # again, we're treating the dataset the same way as in CNM06.
# for Letter P1, we treat '0' as positive and every other letter as negative
Y_letter_P1 = Y_letter_unmod.copy()
```

```
Y_letter_P1[Y_letter_P1 != '0'] = -1
Y_letter_P1[Y_letter_P1 == '0'] = 1
```

```
[118]: Y_letter_P1.value_counts()
```

```
[118]: -1.0    19247
      1.0      753
      Name: Letter, dtype: int64
```

```
[81]: def letter_value(string):
      if ord(string) in range(ord('A'), ord('M')):
          return 1
      elif ord(string) in range(ord('M'), ord('Z')+1):
          return -1
```

```
[82]: # for letter P2, we treat letter A-M as positive and the rest of the letters as
      ↪negative
      Y_letter_P2 = Y_letter_unmod.copy()
      Y_letter_P2 = Y_letter_P2.apply(letter_value)
      Y_letter_P2
```

```
[82]: 0      -1
      1       1
      2       1
      3      -1
      4       1
      ..
      19995    1
      19996    1
      19997   -1
      19998   -1
      19999    1
      Name: Letter, Length: 20000, dtype: int64
```

```
[83]: Y_letter_P2.value_counts()
```

```
[83]: -1    10852
      1     9148
      Name: Letter, dtype: int64
```

Logistic Regression: ADULT

```
[19]: # standardize data
      scaler = StandardScaler()
      X_adult_sc = scaler.fit(X_adult).transform(X_adult)
```



```

[20]: metrics_adult_LR = np.zeros((5, 6))

for i in range(5):
    print("\n Trial", i+1)
    # randomly split the data. size of training data will be 5000
    X_train, X_test, Y_train, Y_test = train_test_split(X_adult_sc, Y_adult,
    ↪train_size = 5000)

    # initialize the classifier
    classifier_LR = LogisticRegression(penalty = 'l2', max_iter = 5000, solver=
    ↪= 'saga', verbose = 0, n_jobs = -1)

    C_list = [1e-4, 1e-3, 1e-2, 1e-1, 1e0, 1e1, 1e2, 1e3, 1e4, 0]

    parameters = {'C': C_list}

    search_clf = GridSearchCV(classifier_LR, parameters, cv =
    ↪StratifiedKFold(n_splits = 5),
                                scoring = ['accuracy', 'roc_auc_ovr', 'f1_micro'],
    ↪refit = False, verbose = 0)
    match_model = search_clf.fit(X_train, Y_train)

    match_param = match_model.cv_results_['params'][np.argmin(match_model.
    ↪cv_results_['rank_test_roc_auc_ovr'])]
    classifier_LR.set_params(**match_param)
    classifier_LR.fit(X_train, Y_train)
    Y_pred_train_auc = classifier_LR.predict(X_train)
    Y_pred_test_auc = classifier_LR.predict(X_test)
    metrics_adult_LR[i, 2] = roc_auc_score(Y_train, Y_pred_train_auc)
    metrics_adult_LR[i, 5] = roc_auc_score(Y_test, Y_pred_test_auc)

    match_param = match_model.cv_results_['params'][np.argmin(match_model.
    ↪cv_results_['rank_test_accuracy'])]
    classifier_LR.set_params(**match_param)
    classifier_LR.fit(X_train, Y_train)
    Y_pred_train_acc = classifier_LR.predict(X_train)
    Y_pred_test_acc = classifier_LR.predict(X_test)
    metrics_adult_LR[i, 0] = accuracy_score(Y_train, Y_pred_train_acc)
    metrics_adult_LR[i, 3] = accuracy_score(Y_test, Y_pred_test_acc)

    match_param = match_model.cv_results_['params'][np.argmin(match_model.
    ↪cv_results_['rank_test_f1_micro'])]
    classifier_LR.set_params(**match_param)
    classifier_LR.fit(X_train, Y_train)

```

```
Y_pred_train_f1 = classifier_LR.predict(X_train)
Y_pred_test_f1 = classifier_LR.predict(X_test)
metrics_adult_LR[i, 1] = f1_score(Y_train, Y_pred_train_f1)
metrics_adult_LR[i, 4] = f1_score(Y_test, Y_pred_test_f1)
```

Trial 1

Fitting 5 folds for each of 10 candidates, totalling 50 fits

[CV] C=0.0001 ...

[Parallel(n_jobs=1)]: Using backend SequentialBackend with 1 concurrent workers.

[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.

[Parallel(n_jobs=-1)]: Done 1 out of 1 | elapsed: 1.0s finished

[Parallel(n_jobs=1)]: Done 1 out of 1 | elapsed: 1.0s remaining: 0.0s

[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.

[CV] ... C=0.0001, total= 1.1s

[CV] C=0.0001 ...

[Parallel(n_jobs=-1)]: Done 1 out of 1 | elapsed: 0.4s finished

[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.

[CV] ... C=0.0001, total= 0.5s

[CV] C=0.0001 ...

[Parallel(n_jobs=-1)]: Done 1 out of 1 | elapsed: 0.4s finished

[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.

[CV] ... C=0.0001, total= 0.5s

[CV] C=0.0001 ...

[Parallel(n_jobs=-1)]: Done 1 out of 1 | elapsed: 0.4s finished

[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.

[CV] ... C=0.0001, total= 0.5s

[CV] C=0.0001 ...

[Parallel(n_jobs=-1)]: Done 1 out of 1 | elapsed: 0.4s finished

[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.

[CV] ... C=0.0001, total= 0.5s

[CV] C=0.001 ...

[Parallel(n_jobs=-1)]: Done 1 out of 1 | elapsed: 0.5s finished

[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.

[CV] ... C=0.001, total= 0.6s

[CV] C=0.001 ...

[Parallel(n_jobs=-1)]: Done 1 out of 1 | elapsed: 0.5s finished

[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.

```

[CV] ... C=0.001, total= 0.6s
[CV] C=0.001 ...

[Parallel(n_jobs=-1)]: Done 1 out of 1 | elapsed: 0.4s finished
[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.

[CV] ... C=0.001, total= 0.5s
[CV] C=0.001 ...

[Parallel(n_jobs=-1)]: Done 1 out of 1 | elapsed: 0.1s finished
[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.

[CV] ... C=0.001, total= 0.2s
[CV] C=0.001 ...

[Parallel(n_jobs=-1)]: Done 1 out of 1 | elapsed: 0.1s finished
[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.

[CV] ... C=0.001, total= 0.2s
[CV] C=0.01 ...

[Parallel(n_jobs=-1)]: Done 1 out of 1 | elapsed: 0.3s finished
[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.

[CV] ... C=0.01, total= 0.4s
[CV] C=0.01 ...

[Parallel(n_jobs=-1)]: Done 1 out of 1 | elapsed: 0.3s finished
[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.

[CV] ... C=0.01, total= 0.4s
[CV] C=0.01 ...

[Parallel(n_jobs=-1)]: Done 1 out of 1 | elapsed: 0.2s finished
[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.

[CV] ... C=0.01, total= 0.3s
[CV] C=0.01 ...

[Parallel(n_jobs=-1)]: Done 1 out of 1 | elapsed: 0.3s finished
[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.

[CV] ... C=0.01, total= 0.4s
[CV] C=0.01 ...

[Parallel(n_jobs=-1)]: Done 1 out of 1 | elapsed: 0.3s finished
[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.

[CV] ... C=0.01, total= 0.4s
[CV] C=0.1 ...

[Parallel(n_jobs=-1)]: Done 1 out of 1 | elapsed: 1.0s finished
[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.

[CV] ... C=0.1, total= 1.1s
[CV] C=0.1 ...

```

```

[Parallel(n_jobs=-1)]: Done 1 out of 1 | elapsed: 1.1s finished
[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.

[CV] ... C=0.1, total= 1.2s
[CV] C=0.1 ...

[Parallel(n_jobs=-1)]: Done 1 out of 1 | elapsed: 1.0s finished
[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.

[CV] ... C=0.1, total= 1.1s
[CV] C=0.1 ...

[Parallel(n_jobs=-1)]: Done 1 out of 1 | elapsed: 1.0s finished
[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.

[CV] ... C=0.1, total= 1.2s
[CV] C=0.1 ...

[Parallel(n_jobs=-1)]: Done 1 out of 1 | elapsed: 0.9s finished
[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.

[CV] ... C=0.1, total= 1.0s
[CV] C=1.0 ...

[Parallel(n_jobs=-1)]: Done 1 out of 1 | elapsed: 1.6s finished
[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.

[CV] ... C=1.0, total= 1.8s
[CV] C=1.0 ...

[Parallel(n_jobs=-1)]: Done 1 out of 1 | elapsed: 2.2s finished
[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.

[CV] ... C=1.0, total= 2.3s
[CV] C=1.0 ...

[Parallel(n_jobs=-1)]: Done 1 out of 1 | elapsed: 2.9s finished
[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.

[CV] ... C=1.0, total= 3.0s
[CV] C=1.0 ...

[Parallel(n_jobs=-1)]: Done 1 out of 1 | elapsed: 2.9s finished
[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.

[CV] ... C=1.0, total= 3.0s
[CV] C=1.0 ...

[Parallel(n_jobs=-1)]: Done 1 out of 1 | elapsed: 2.0s finished
[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.

[CV] ... C=1.0, total= 2.1s
[CV] C=10.0 ...

[Parallel(n_jobs=-1)]: Done 1 out of 1 | elapsed: 1.8s finished
[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.

```

```

[CV] ... C=10.0, total=    1.9s
[CV] C=10.0 ...

[Parallel(n_jobs=-1)]: Done    1 out of    1 | elapsed:    2.8s finished
[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.

[CV] ... C=10.0, total=    2.9s
[CV] C=10.0 ...

[Parallel(n_jobs=-1)]: Done    1 out of    1 | elapsed:    3.8s finished
[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.

[CV] ... C=10.0, total=    3.9s
[CV] C=10.0 ...

[Parallel(n_jobs=-1)]: Done    1 out of    1 | elapsed:    3.4s finished
[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.

[CV] ... C=10.0, total=    3.5s
[CV] C=10.0 ...

[Parallel(n_jobs=-1)]: Done    1 out of    1 | elapsed:    2.4s finished
[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.

[CV] ... C=10.0, total=    2.5s
[CV] C=100.0 ...

[Parallel(n_jobs=-1)]: Done    1 out of    1 | elapsed:    1.7s finished
[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.

[CV] ... C=100.0, total=    1.8s
[CV] C=100.0 ...

[Parallel(n_jobs=-1)]: Done    1 out of    1 | elapsed:    2.8s finished
[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.

[CV] ... C=100.0, total=    2.9s
[CV] C=100.0 ...

[Parallel(n_jobs=-1)]: Done    1 out of    1 | elapsed:    3.8s finished
[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.

[CV] ... C=100.0, total=    3.9s
[CV] C=100.0 ...

[Parallel(n_jobs=-1)]: Done    1 out of    1 | elapsed:    3.5s finished
[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.

[CV] ... C=100.0, total=    3.6s
[CV] C=100.0 ...

[Parallel(n_jobs=-1)]: Done    1 out of    1 | elapsed:    2.2s finished
[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.

[CV] ... C=100.0, total=    2.4s
[CV] C=1000.0 ...

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[Parallel(n_jobs=-1)]: Done 1 out of 1 | elapsed: 1.8s finished
[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.

[CV] ... C=1000.0, total= 1.9s
[CV] C=1000.0 ...

[Parallel(n_jobs=-1)]: Done 1 out of 1 | elapsed: 2.8s finished
[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.

[CV] ... C=1000.0, total= 2.9s
[CV] C=1000.0 ...

[Parallel(n_jobs=-1)]: Done 1 out of 1 | elapsed: 3.9s finished
[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.

[CV] ... C=1000.0, total= 4.0s
[CV] C=1000.0 ...

[Parallel(n_jobs=-1)]: Done 1 out of 1 | elapsed: 3.4s finished
[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.

[CV] ... C=1000.0, total= 3.6s
[CV] C=1000.0 ...

[Parallel(n_jobs=-1)]: Done 1 out of 1 | elapsed: 2.3s finished
[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.

[CV] ... C=1000.0, total= 2.4s
[CV] C=10000.0 ...

[Parallel(n_jobs=-1)]: Done 1 out of 1 | elapsed: 1.8s finished
[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.

[CV] ... C=10000.0, total= 1.9s
[CV] C=10000.0 ...

[Parallel(n_jobs=-1)]: Done 1 out of 1 | elapsed: 2.8s finished
[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.

[CV] ... C=10000.0, total= 2.9s
[CV] C=10000.0 ...

[Parallel(n_jobs=-1)]: Done 1 out of 1 | elapsed: 3.9s finished
[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.

[CV] ... C=10000.0, total= 4.1s
[CV] C=10000.0 ...

[Parallel(n_jobs=-1)]: Done 1 out of 1 | elapsed: 3.4s finished
[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.

[CV] ... C=10000.0, total= 3.5s
[CV] C=10000.0 ...

[Parallel(n_jobs=-1)]: Done 1 out of 1 | elapsed: 2.3s finished
[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.
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```

packages\sklearn\model_selection_validation.py:536: FitFailedWarning: Estimator fit failed. The score on this train-test partition for these parameters will be set to nan. Details:

ZeroDivisionError: float division by zero

FitFailedWarning)

[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.

[CV] ... C=10000.0, total= 2.4s

[CV] C=0 ...

[CV] ... C=0, total= 0.1s

[CV] C=0 ...

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packages\sklearn\model_selection_validation.py:536: FitFailedWarning: Estimator fit failed. The score on this train-test partition for these parameters will be set to nan. Details:

ZeroDivisionError: float division by zero

FitFailedWarning)

[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.

[CV] ... C=0, total= 1.0s

[CV] C=0 ...

D:\CodeNameSolus\Apps\lib\site-

packages\sklearn\model_selection_validation.py:536: FitFailedWarning: Estimator fit failed. The score on this train-test partition for these parameters will be set to nan. Details:

ZeroDivisionError: float division by zero

FitFailedWarning)

[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.

[CV] ... C=0, total= 0.9s

[CV] C=0 ...

D:\CodeNameSolus\Apps\lib\site-

packages\sklearn\model_selection_validation.py:536: FitFailedWarning: Estimator fit failed. The score on this train-test partition for these parameters will be set to nan. Details:

ZeroDivisionError: float division by zero

FitFailedWarning)

[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.

[CV] ... C=0, total= 0.9s

[CV] C=0 ...

D:\CodeNameSolus\Apps\lib\site-

packages\sklearn\model_selection_validation.py:536: FitFailedWarning: Estimator fit failed. The score on this train-test partition for these parameters will be

set to nan. Details:

ZeroDivisionError: float division by zero

FitFailedWarning)

[Parallel(n_jobs=1)]: Done 50 out of 50 | elapsed: 1.5min finished

[Parallel(n_jobs=-1)]: Using backend ThreadingBackend with 8 concurrent workers.

[CV] ... C=0, total= 0.9s

convergence after 253 epochs took 1 seconds

[Parallel(n_jobs=-1)]: Done 1 out of 1 | elapsed: 1.0s finished

[Parallel(n_jobs=-1)]: Using backend ThreadingBackend with 8 concurrent workers.

convergence after 253 epochs took 1 seconds

[Parallel(n_jobs=-1)]: Done 1 out of 1 | elapsed: 1.0s finished

[Parallel(n_jobs=-1)]: Using backend ThreadingBackend with 8 concurrent workers.

convergence after 253 epochs took 1 seconds

Trial 2

Fitting 5 folds for each of 10 candidates, totalling 50 fits

[CV] C=0.0001 ...

[Parallel(n_jobs=-1)]: Done 1 out of 1 | elapsed: 1.1s finished

[Parallel(n_jobs=1)]: Using backend SequentialBackend with 1 concurrent workers.

[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.

[Parallel(n_jobs=-1)]: Done 1 out of 1 | elapsed: 0.9s finished

[Parallel(n_jobs=1)]: Done 1 out of 1 | elapsed: 0.9s remaining: 0.0s

[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.

[CV] ... C=0.0001, total= 1.0s

[CV] C=0.0001 ...

[Parallel(n_jobs=-1)]: Done 1 out of 1 | elapsed: 0.4s finished

[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.

[CV] ... C=0.0001, total= 0.5s

[CV] C=0.0001 ...

[Parallel(n_jobs=-1)]: Done 1 out of 1 | elapsed: 0.4s finished

[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.

[CV] ... C=0.0001, total= 0.5s

[CV] C=0.0001 ...

[Parallel(n_jobs=-1)]: Done 1 out of 1 | elapsed: 0.4s finished

[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.

[CV] ... C=0.0001, total= 0.5s

[CV] C=0.0001 ...

[Parallel(n_jobs=-1)]: Done 1 out of 1 | elapsed: 0.4s finished

[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.


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[CV] ... C=0.0001, total=    0.5s
[CV] C=0.001 ...

[Parallel(n_jobs=-1)]: Done    1 out of    1 | elapsed:    0.4s finished
[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.

[CV] ... C=0.001, total=    0.5s
[CV] C=0.001 ...

[Parallel(n_jobs=-1)]: Done    1 out of    1 | elapsed:    0.4s finished
[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.

[CV] ... C=0.001, total=    0.5s
[CV] C=0.001 ...

[Parallel(n_jobs=-1)]: Done    1 out of    1 | elapsed:    0.4s finished
[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.

[CV] ... C=0.001, total=    0.5s
[CV] C=0.001 ...

[Parallel(n_jobs=-1)]: Done    1 out of    1 | elapsed:    0.1s finished
[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.

[CV] ... C=0.001, total=    0.2s
[CV] C=0.001 ...

[Parallel(n_jobs=-1)]: Done    1 out of    1 | elapsed:    0.1s finished
[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.

[CV] ... C=0.001, total=    0.2s
[CV] C=0.01 ...

[Parallel(n_jobs=-1)]: Done    1 out of    1 | elapsed:    0.2s finished
[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.

[CV] ... C=0.01, total=    0.3s
[CV] C=0.01 ...

[Parallel(n_jobs=-1)]: Done    1 out of    1 | elapsed:    0.3s finished
[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.

[CV] ... C=0.01, total=    0.4s
[CV] C=0.01 ...

[Parallel(n_jobs=-1)]: Done    1 out of    1 | elapsed:    0.3s finished
[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.

[CV] ... C=0.01, total=    0.4s
[CV] C=0.01 ...

[Parallel(n_jobs=-1)]: Done    1 out of    1 | elapsed:    0.3s finished
[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.

[CV] ... C=0.01, total=    0.5s
[CV] C=0.01 ...

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[Parallel(n_jobs=-1)]: Done 1 out of 1 | elapsed: 0.3s finished
[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.

[CV] ... C=0.01, total= 0.4s
[CV] C=0.1 ...

[Parallel(n_jobs=-1)]: Done 1 out of 1 | elapsed: 0.8s finished
[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.

[CV] ... C=0.1, total= 0.9s
[CV] C=0.1 ...

[Parallel(n_jobs=-1)]: Done 1 out of 1 | elapsed: 1.1s finished
[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.

[CV] ... C=0.1, total= 1.2s
[CV] C=0.1 ...

[Parallel(n_jobs=-1)]: Done 1 out of 1 | elapsed: 1.1s finished
[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.

[CV] ... C=0.1, total= 1.2s
[CV] C=0.1 ...

[Parallel(n_jobs=-1)]: Done 1 out of 1 | elapsed: 1.1s finished
[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.

[CV] ... C=0.1, total= 1.2s
[CV] C=0.1 ...

[Parallel(n_jobs=-1)]: Done 1 out of 1 | elapsed: 1.4s finished
[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.

[CV] ... C=0.1, total= 1.5s
[CV] C=1.0 ...

[Parallel(n_jobs=-1)]: Done 1 out of 1 | elapsed: 2.0s finished
[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.

[CV] ... C=1.0, total= 2.1s
[CV] C=1.0 ...

[Parallel(n_jobs=-1)]: Done 1 out of 1 | elapsed: 2.7s finished
[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.

[CV] ... C=1.0, total= 2.8s
[CV] C=1.0 ...

[Parallel(n_jobs=-1)]: Done 1 out of 1 | elapsed: 2.4s finished
[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.

[CV] ... C=1.0, total= 2.5s
[CV] C=1.0 ...

[Parallel(n_jobs=-1)]: Done 1 out of 1 | elapsed: 2.5s finished
[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.

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[CV] ... C=1.0, total= 2.6s
[CV] C=1.0 ...

[Parallel(n_jobs=-1)]: Done 1 out of 1 | elapsed: 3.2s finished
[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.

[CV] ... C=1.0, total= 3.3s
[CV] C=10.0 ...

[Parallel(n_jobs=-1)]: Done 1 out of 1 | elapsed: 2.3s finished
[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.

[CV] ... C=10.0, total= 2.4s
[CV] C=10.0 ...

[Parallel(n_jobs=-1)]: Done 1 out of 1 | elapsed: 3.2s finished
[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.

[CV] ... C=10.0, total= 3.3s
[CV] C=10.0 ...

[Parallel(n_jobs=-1)]: Done 1 out of 1 | elapsed: 2.7s finished
[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.

[CV] ... C=10.0, total= 2.8s
[CV] C=10.0 ...

[Parallel(n_jobs=-1)]: Done 1 out of 1 | elapsed: 2.9s finished
[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.

[CV] ... C=10.0, total= 3.0s
[CV] C=10.0 ...

[Parallel(n_jobs=-1)]: Done 1 out of 1 | elapsed: 3.6s finished
[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.

[CV] ... C=10.0, total= 3.7s
[CV] C=100.0 ...

[Parallel(n_jobs=-1)]: Done 1 out of 1 | elapsed: 2.4s finished
[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.

[CV] ... C=100.0, total= 2.5s
[CV] C=100.0 ...

[Parallel(n_jobs=-1)]: Done 1 out of 1 | elapsed: 3.3s finished
[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.

[CV] ... C=100.0, total= 3.4s
[CV] C=100.0 ...

[Parallel(n_jobs=-1)]: Done 1 out of 1 | elapsed: 2.7s finished
[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.

[CV] ... C=100.0, total= 2.8s
[CV] C=100.0 ...

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[Parallel(n_jobs=-1)]: Done 1 out of 1 | elapsed: 2.9s finished
[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.

[CV] ... C=100.0, total= 3.0s
[CV] C=100.0 ...

[Parallel(n_jobs=-1)]: Done 1 out of 1 | elapsed: 3.6s finished
[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.

[CV] ... C=100.0, total= 3.7s
[CV] C=1000.0 ...

[Parallel(n_jobs=-1)]: Done 1 out of 1 | elapsed: 2.4s finished
[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.

[CV] ... C=1000.0, total= 2.5s
[CV] C=1000.0 ...

[Parallel(n_jobs=-1)]: Done 1 out of 1 | elapsed: 3.2s finished
[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.

[CV] ... C=1000.0, total= 3.3s
[CV] C=1000.0 ...

[Parallel(n_jobs=-1)]: Done 1 out of 1 | elapsed: 3.5s finished
[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.

[CV] ... C=1000.0, total= 3.6s
[CV] C=1000.0 ...

[Parallel(n_jobs=-1)]: Done 1 out of 1 | elapsed: 3.0s finished
[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.

[CV] ... C=1000.0, total= 3.1s
[CV] C=1000.0 ...

[Parallel(n_jobs=-1)]: Done 1 out of 1 | elapsed: 3.7s finished
[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.

[CV] ... C=1000.0, total= 3.8s
[CV] C=10000.0 ...

[Parallel(n_jobs=-1)]: Done 1 out of 1 | elapsed: 2.3s finished
[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.

[CV] ... C=10000.0, total= 2.4s
[CV] C=10000.0 ...

[Parallel(n_jobs=-1)]: Done 1 out of 1 | elapsed: 3.3s finished
[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.

[CV] ... C=10000.0, total= 3.4s
[CV] C=10000.0 ...

[Parallel(n_jobs=-1)]: Done 1 out of 1 | elapsed: 2.9s finished
[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.

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[CV] ... C=10000.0, total= 3.0s
[CV] C=10000.0 ...

[Parallel(n_jobs=-1)]: Done 1 out of 1 | elapsed: 3.4s finished
[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.

[CV] ... C=10000.0, total= 3.5s
[CV] C=10000.0 ...

[Parallel(n_jobs=-1)]: Done 1 out of 1 | elapsed: 4.0s finished
[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.
D:\CodeNameSolus\Apps\lib\site-
packages\sklearn\model_selection\_validation.py:536: FitFailedWarning: Estimator
fit failed. The score on this train-test partition for these parameters will be
set to nan. Details:
ZeroDivisionError: float division by zero

FitFailedWarning)
[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.

[CV] ... C=10000.0, total= 4.1s
[CV] C=0 ...
[CV] ... C=0, total= 0.1s
[CV] C=0 ...

D:\CodeNameSolus\Apps\lib\site-
packages\sklearn\model_selection\_validation.py:536: FitFailedWarning: Estimator
fit failed. The score on this train-test partition for these parameters will be
set to nan. Details:
ZeroDivisionError: float division by zero

FitFailedWarning)
[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.

[CV] ... C=0, total= 1.1s
[CV] C=0 ...

D:\CodeNameSolus\Apps\lib\site-
packages\sklearn\model_selection\_validation.py:536: FitFailedWarning: Estimator
fit failed. The score on this train-test partition for these parameters will be
set to nan. Details:
ZeroDivisionError: float division by zero

FitFailedWarning)
[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.

[CV] ... C=0, total= 1.1s
[CV] C=0 ...

D:\CodeNameSolus\Apps\lib\site-
packages\sklearn\model_selection\_validation.py:536: FitFailedWarning: Estimator
fit failed. The score on this train-test partition for these parameters will be

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set to nan. Details:

ZeroDivisionError: float division by zero

FitFailedWarning)

[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.

[CV] ... C=0, total= 1.1s

[CV] C=0 ...

D:\CodeNameSolus\Apps\lib\site-

packages\sklearn\model_selection_validation.py:536: FitFailedWarning: Estimator fit failed. The score on this train-test partition for these parameters will be set to nan. Details:

ZeroDivisionError: float division by zero

FitFailedWarning)

[Parallel(n_jobs=1)]: Done 50 out of 50 | elapsed: 1.6min finished

[Parallel(n_jobs=-1)]: Using backend ThreadingBackend with 8 concurrent workers.

[CV] ... C=0, total= 1.1s

convergence after 340 epochs took 1 seconds

[Parallel(n_jobs=-1)]: Done 1 out of 1 | elapsed: 1.5s finished

[Parallel(n_jobs=-1)]: Using backend ThreadingBackend with 8 concurrent workers.

convergence after 338 epochs took 2 seconds

[Parallel(n_jobs=-1)]: Done 1 out of 1 | elapsed: 1.6s finished

[Parallel(n_jobs=-1)]: Using backend ThreadingBackend with 8 concurrent workers.

convergence after 337 epochs took 2 seconds

Trial 3

Fitting 5 folds for each of 10 candidates, totalling 50 fits

[CV] C=0.0001 ...

[Parallel(n_jobs=-1)]: Done 1 out of 1 | elapsed: 1.6s finished

[Parallel(n_jobs=1)]: Using backend SequentialBackend with 1 concurrent workers.

[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.

[Parallel(n_jobs=-1)]: Done 1 out of 1 | elapsed: 1.0s finished

[Parallel(n_jobs=1)]: Done 1 out of 1 | elapsed: 1.0s remaining: 0.0s

[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.

[CV] ... C=0.0001, total= 1.1s

[CV] C=0.0001 ...

[Parallel(n_jobs=-1)]: Done 1 out of 1 | elapsed: 0.4s finished

[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.

[CV] ... C=0.0001, total= 0.5s

[CV] C=0.0001 ...

[Parallel(n_jobs=-1)]: Done 1 out of 1 | elapsed: 0.4s finished

[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.

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[CV] ... C=0.0001, total= 0.5s
[CV] C=0.0001 ...

[Parallel(n_jobs=-1)]: Done 1 out of 1 | elapsed: 0.4s finished
[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.

[CV] ... C=0.0001, total= 0.5s
[CV] C=0.0001 ...

[Parallel(n_jobs=-1)]: Done 1 out of 1 | elapsed: 0.4s finished
[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.

[CV] ... C=0.0001, total= 0.5s
[CV] C=0.001 ...

[Parallel(n_jobs=-1)]: Done 1 out of 1 | elapsed: 0.5s finished
[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.

[CV] ... C=0.001, total= 0.6s
[CV] C=0.001 ...

[Parallel(n_jobs=-1)]: Done 1 out of 1 | elapsed: 0.5s finished
[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.

[CV] ... C=0.001, total= 0.6s
[CV] C=0.001 ...

[Parallel(n_jobs=-1)]: Done 1 out of 1 | elapsed: 0.5s finished
[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.

[CV] ... C=0.001, total= 0.6s
[CV] C=0.001 ...

[Parallel(n_jobs=-1)]: Done 1 out of 1 | elapsed: 0.1s finished
[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.

[CV] ... C=0.001, total= 0.2s
[CV] C=0.001 ...

[Parallel(n_jobs=-1)]: Done 1 out of 1 | elapsed: 0.1s finished
[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.

[CV] ... C=0.001, total= 0.2s
[CV] C=0.01 ...

[Parallel(n_jobs=-1)]: Done 1 out of 1 | elapsed: 0.3s finished
[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.

[CV] ... C=0.01, total= 0.4s
[CV] C=0.01 ...

[Parallel(n_jobs=-1)]: Done 1 out of 1 | elapsed: 0.3s finished
[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.

[CV] ... C=0.01, total= 0.4s
[CV] C=0.01 ...

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[Parallel(n_jobs=-1)]: Done 1 out of 1 | elapsed: 0.3s finished
[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.

[CV] ... C=0.01, total= 0.4s
[CV] C=0.01 ...

[Parallel(n_jobs=-1)]: Done 1 out of 1 | elapsed: 0.3s finished
[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.

[CV] ... C=0.01, total= 0.4s
[CV] C=0.01 ...

[Parallel(n_jobs=-1)]: Done 1 out of 1 | elapsed: 0.3s finished
[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.

[CV] ... C=0.01, total= 0.4s
[CV] C=0.1 ...

[Parallel(n_jobs=-1)]: Done 1 out of 1 | elapsed: 1.2s finished
[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.

[CV] ... C=0.1, total= 1.3s
[CV] C=0.1 ...

[Parallel(n_jobs=-1)]: Done 1 out of 1 | elapsed: 1.1s finished
[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.

[CV] ... C=0.1, total= 1.2s
[CV] C=0.1 ...

[Parallel(n_jobs=-1)]: Done 1 out of 1 | elapsed: 1.0s finished
[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.

[CV] ... C=0.1, total= 1.1s
[CV] C=0.1 ...

[Parallel(n_jobs=-1)]: Done 1 out of 1 | elapsed: 1.1s finished
[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.

[CV] ... C=0.1, total= 1.2s
[CV] C=0.1 ...

[Parallel(n_jobs=-1)]: Done 1 out of 1 | elapsed: 1.1s finished
[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.

[CV] ... C=0.1, total= 1.2s
[CV] C=1.0 ...

[Parallel(n_jobs=-1)]: Done 1 out of 1 | elapsed: 2.1s finished
[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.

[CV] ... C=1.0, total= 2.2s
[CV] C=1.0 ...

[Parallel(n_jobs=-1)]: Done 1 out of 1 | elapsed: 2.2s finished
[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.

```



```

[CV] ... C=1.0, total= 2.3s
[CV] C=1.0 ...

[Parallel(n_jobs=-1)]: Done 1 out of 1 | elapsed: 1.5s finished
[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.

[CV] ... C=1.0, total= 1.6s
[CV] C=1.0 ...

[Parallel(n_jobs=-1)]: Done 1 out of 1 | elapsed: 2.1s finished
[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.

[CV] ... C=1.0, total= 2.2s
[CV] C=1.0 ...

[Parallel(n_jobs=-1)]: Done 1 out of 1 | elapsed: 2.1s finished
[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.

[CV] ... C=1.0, total= 2.2s
[CV] C=10.0 ...

[Parallel(n_jobs=-1)]: Done 1 out of 1 | elapsed: 2.2s finished
[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.

[CV] ... C=10.0, total= 2.4s
[CV] C=10.0 ...

[Parallel(n_jobs=-1)]: Done 1 out of 1 | elapsed: 2.4s finished
[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.

[CV] ... C=10.0, total= 2.5s
[CV] C=10.0 ...

[Parallel(n_jobs=-1)]: Done 1 out of 1 | elapsed: 1.9s finished
[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.

[CV] ... C=10.0, total= 2.0s
[CV] C=10.0 ...

[Parallel(n_jobs=-1)]: Done 1 out of 1 | elapsed: 2.3s finished
[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.

[CV] ... C=10.0, total= 2.4s
[CV] C=10.0 ...

[Parallel(n_jobs=-1)]: Done 1 out of 1 | elapsed: 2.3s finished
[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.

[CV] ... C=10.0, total= 2.4s
[CV] C=100.0 ...

[Parallel(n_jobs=-1)]: Done 1 out of 1 | elapsed: 2.3s finished
[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.

[CV] ... C=100.0, total= 2.4s
[CV] C=100.0 ...

```

```

[Parallel(n_jobs=-1)]: Done 1 out of 1 | elapsed: 2.8s finished
[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.

[CV] ... C=100.0, total= 2.9s
[CV] C=100.0 ...

[Parallel(n_jobs=-1)]: Done 1 out of 1 | elapsed: 1.8s finished
[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.

[CV] ... C=100.0, total= 1.9s
[CV] C=100.0 ...

[Parallel(n_jobs=-1)]: Done 1 out of 1 | elapsed: 2.2s finished
[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.

[CV] ... C=100.0, total= 2.3s
[CV] C=100.0 ...

[Parallel(n_jobs=-1)]: Done 1 out of 1 | elapsed: 2.6s finished
[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.

[CV] ... C=100.0, total= 2.7s
[CV] C=1000.0 ...

[Parallel(n_jobs=-1)]: Done 1 out of 1 | elapsed: 2.4s finished
[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.

[CV] ... C=1000.0, total= 2.5s
[CV] C=1000.0 ...

[Parallel(n_jobs=-1)]: Done 1 out of 1 | elapsed: 2.5s finished
[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.

[CV] ... C=1000.0, total= 2.6s
[CV] C=1000.0 ...

[Parallel(n_jobs=-1)]: Done 1 out of 1 | elapsed: 2.0s finished
[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.

[CV] ... C=1000.0, total= 2.1s
[CV] C=1000.0 ...

[Parallel(n_jobs=-1)]: Done 1 out of 1 | elapsed: 2.4s finished
[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.

[CV] ... C=1000.0, total= 2.5s
[CV] C=1000.0 ...

[Parallel(n_jobs=-1)]: Done 1 out of 1 | elapsed: 2.4s finished
[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.

[CV] ... C=1000.0, total= 2.5s
[CV] C=10000.0 ...

[Parallel(n_jobs=-1)]: Done 1 out of 1 | elapsed: 2.2s finished
[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.

```

```

[CV] ... C=10000.0, total= 2.3s
[CV] C=10000.0 ...

[Parallel(n_jobs=-1)]: Done 1 out of 1 | elapsed: 2.5s finished
[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.

[CV] ... C=10000.0, total= 2.6s
[CV] C=10000.0 ...

[Parallel(n_jobs=-1)]: Done 1 out of 1 | elapsed: 1.9s finished
[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.

[CV] ... C=10000.0, total= 2.0s
[CV] C=10000.0 ...

[Parallel(n_jobs=-1)]: Done 1 out of 1 | elapsed: 2.1s finished
[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.

[CV] ... C=10000.0, total= 2.2s
[CV] C=10000.0 ...

[Parallel(n_jobs=-1)]: Done 1 out of 1 | elapsed: 2.2s finished
[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.
D:\CodeNameSolus\Apps\lib\site-
packages\sklearn\model_selection\_validation.py:536: FitFailedWarning: Estimator
fit failed. The score on this train-test partition for these parameters will be
set to nan. Details:
ZeroDivisionError: float division by zero

FitFailedWarning)
[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.

[CV] ... C=10000.0, total= 2.3s
[CV] C=0 ...
[CV] ... C=0, total= 0.2s
[CV] C=0 ...

D:\CodeNameSolus\Apps\lib\site-
packages\sklearn\model_selection\_validation.py:536: FitFailedWarning: Estimator
fit failed. The score on this train-test partition for these parameters will be
set to nan. Details:
ZeroDivisionError: float division by zero

FitFailedWarning)
[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.

[CV] ... C=0, total= 1.0s
[CV] C=0 ...

D:\CodeNameSolus\Apps\lib\site-
packages\sklearn\model_selection\_validation.py:536: FitFailedWarning: Estimator
fit failed. The score on this train-test partition for these parameters will be
set to nan. Details:

```

ZeroDivisionError: float division by zero

```
FitFailedWarning)
[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.
[CV] ... C=0, total= 1.0s
[CV] C=0 ...

D:\CodeNameSolus\Apps\lib\site-
packages\sklearn\model_selection\_validation.py:536: FitFailedWarning: Estimator
fit failed. The score on this train-test partition for these parameters will be
set to nan. Details:
ZeroDivisionError: float division by zero
```

```
FitFailedWarning)
[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.
[CV] ... C=0, total= 1.0s
[CV] C=0 ...

D:\CodeNameSolus\Apps\lib\site-
packages\sklearn\model_selection\_validation.py:536: FitFailedWarning: Estimator
fit failed. The score on this train-test partition for these parameters will be
set to nan. Details:
ZeroDivisionError: float division by zero
```

```
FitFailedWarning)
[Parallel(n_jobs=1)]: Done 50 out of 50 | elapsed: 1.3min finished
[Parallel(n_jobs=-1)]: Using backend ThreadingBackend with 8 concurrent workers.
[CV] ... C=0, total= 0.9s
convergence after 304 epochs took 1 seconds

[Parallel(n_jobs=-1)]: Done 1 out of 1 | elapsed: 1.3s finished
[Parallel(n_jobs=-1)]: Using backend ThreadingBackend with 8 concurrent workers.
convergence after 302 epochs took 2 seconds

[Parallel(n_jobs=-1)]: Done 1 out of 1 | elapsed: 1.4s finished
[Parallel(n_jobs=-1)]: Using backend ThreadingBackend with 8 concurrent workers.
convergence after 303 epochs took 1 seconds
```

Trial 4
Fitting 5 folds for each of 10 candidates, totalling 50 fits
[CV] C=0.0001 ...

```
[Parallel(n_jobs=-1)]: Done 1 out of 1 | elapsed: 1.3s finished
[Parallel(n_jobs=1)]: Using backend SequentialBackend with 1 concurrent workers.
[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.
[Parallel(n_jobs=-1)]: Done 1 out of 1 | elapsed: 0.9s finished
[Parallel(n_jobs=1)]: Done 1 out of 1 | elapsed: 0.9s remaining: 0.0s
[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.
```

```

[CV] ... C=0.0001, total= 1.0s
[CV] C=0.0001 ...

[Parallel(n_jobs=-1)]: Done 1 out of 1 | elapsed: 0.4s finished
[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.

[CV] ... C=0.0001, total= 0.5s
[CV] C=0.0001 ...

[Parallel(n_jobs=-1)]: Done 1 out of 1 | elapsed: 0.4s finished
[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.

[CV] ... C=0.0001, total= 0.5s
[CV] C=0.0001 ...

[Parallel(n_jobs=-1)]: Done 1 out of 1 | elapsed: 0.4s finished
[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.

[CV] ... C=0.0001, total= 0.5s
[CV] C=0.0001 ...

[Parallel(n_jobs=-1)]: Done 1 out of 1 | elapsed: 0.4s finished
[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.

[CV] ... C=0.0001, total= 0.5s
[CV] C=0.001 ...

[Parallel(n_jobs=-1)]: Done 1 out of 1 | elapsed: 0.4s finished
[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.

[CV] ... C=0.001, total= 0.5s
[CV] C=0.001 ...

[Parallel(n_jobs=-1)]: Done 1 out of 1 | elapsed: 0.4s finished
[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.

[CV] ... C=0.001, total= 0.6s
[CV] C=0.001 ...

[Parallel(n_jobs=-1)]: Done 1 out of 1 | elapsed: 0.5s finished
[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.

[CV] ... C=0.001, total= 0.6s
[CV] C=0.001 ...

[Parallel(n_jobs=-1)]: Done 1 out of 1 | elapsed: 0.1s finished
[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.

[CV] ... C=0.001, total= 0.2s
[CV] C=0.001 ...

[Parallel(n_jobs=-1)]: Done 1 out of 1 | elapsed: 0.1s finished
[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.

[CV] ... C=0.001, total= 0.2s
[CV] C=0.01 ...

```

```

[Parallel(n_jobs=-1)]: Done 1 out of 1 | elapsed: 0.2s finished
[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.

[CV] ... C=0.01, total= 0.3s
[CV] C=0.01 ...

[Parallel(n_jobs=-1)]: Done 1 out of 1 | elapsed: 0.3s finished
[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.

[CV] ... C=0.01, total= 0.4s
[CV] C=0.01 ...

[Parallel(n_jobs=-1)]: Done 1 out of 1 | elapsed: 0.3s finished
[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.

[CV] ... C=0.01, total= 0.4s
[CV] C=0.01 ...

[Parallel(n_jobs=-1)]: Done 1 out of 1 | elapsed: 0.3s finished
[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.

[CV] ... C=0.01, total= 0.4s
[CV] C=0.01 ...

[Parallel(n_jobs=-1)]: Done 1 out of 1 | elapsed: 0.3s finished
[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.

[CV] ... C=0.01, total= 0.4s
[CV] C=0.1 ...

[Parallel(n_jobs=-1)]: Done 1 out of 1 | elapsed: 0.6s finished
[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.

[CV] ... C=0.1, total= 0.7s
[CV] C=0.1 ...

[Parallel(n_jobs=-1)]: Done 1 out of 1 | elapsed: 1.1s finished
[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.

[CV] ... C=0.1, total= 1.2s
[CV] C=0.1 ...

[Parallel(n_jobs=-1)]: Done 1 out of 1 | elapsed: 1.0s finished
[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.

[CV] ... C=0.1, total= 1.2s
[CV] C=0.1 ...

[Parallel(n_jobs=-1)]: Done 1 out of 1 | elapsed: 1.0s finished
[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.

[CV] ... C=0.1, total= 1.1s
[CV] C=0.1 ...

[Parallel(n_jobs=-1)]: Done 1 out of 1 | elapsed: 1.0s finished
[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.

```

```

[CV] ... C=0.1, total= 1.1s
[CV] C=1.0 ...

[Parallel(n_jobs=-1)]: Done 1 out of 1 | elapsed: 1.0s finished
[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.

[CV] ... C=1.0, total= 1.1s
[CV] C=1.0 ...

[Parallel(n_jobs=-1)]: Done 1 out of 1 | elapsed: 2.0s finished
[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.

[CV] ... C=1.0, total= 2.1s
[CV] C=1.0 ...

[Parallel(n_jobs=-1)]: Done 1 out of 1 | elapsed: 2.2s finished
[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.

[CV] ... C=1.0, total= 2.3s
[CV] C=1.0 ...

[Parallel(n_jobs=-1)]: Done 1 out of 1 | elapsed: 1.5s finished
[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.

[CV] ... C=1.0, total= 1.6s
[CV] C=1.0 ...

[Parallel(n_jobs=-1)]: Done 1 out of 1 | elapsed: 1.7s finished
[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.

[CV] ... C=1.0, total= 1.8s
[CV] C=10.0 ...

[Parallel(n_jobs=-1)]: Done 1 out of 1 | elapsed: 1.1s finished
[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.

[CV] ... C=10.0, total= 1.3s
[CV] C=10.0 ...

[Parallel(n_jobs=-1)]: Done 1 out of 1 | elapsed: 2.3s finished
[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.

[CV] ... C=10.0, total= 2.4s
[CV] C=10.0 ...

[Parallel(n_jobs=-1)]: Done 1 out of 1 | elapsed: 2.4s finished
[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.

[CV] ... C=10.0, total= 2.5s
[CV] C=10.0 ...

[Parallel(n_jobs=-1)]: Done 1 out of 1 | elapsed: 1.7s finished
[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.

[CV] ... C=10.0, total= 1.8s
[CV] C=10.0 ...

```

```

[Parallel(n_jobs=-1)]: Done 1 out of 1 | elapsed: 1.9s finished
[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.

[CV] ... C=10.0, total= 2.0s
[CV] C=100.0 ...

[Parallel(n_jobs=-1)]: Done 1 out of 1 | elapsed: 1.2s finished
[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.

[CV] ... C=100.0, total= 1.3s
[CV] C=100.0 ...

[Parallel(n_jobs=-1)]: Done 1 out of 1 | elapsed: 2.3s finished
[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.

[CV] ... C=100.0, total= 2.4s
[CV] C=100.0 ...

[Parallel(n_jobs=-1)]: Done 1 out of 1 | elapsed: 2.6s finished
[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.

[CV] ... C=100.0, total= 2.7s
[CV] C=100.0 ...

[Parallel(n_jobs=-1)]: Done 1 out of 1 | elapsed: 1.6s finished
[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.

[CV] ... C=100.0, total= 1.7s
[CV] C=100.0 ...

[Parallel(n_jobs=-1)]: Done 1 out of 1 | elapsed: 1.8s finished
[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.

[CV] ... C=100.0, total= 1.9s
[CV] C=1000.0 ...

[Parallel(n_jobs=-1)]: Done 1 out of 1 | elapsed: 1.1s finished
[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.

[CV] ... C=1000.0, total= 1.2s
[CV] C=1000.0 ...

[Parallel(n_jobs=-1)]: Done 1 out of 1 | elapsed: 2.2s finished
[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.

[CV] ... C=1000.0, total= 2.3s
[CV] C=1000.0 ...

[Parallel(n_jobs=-1)]: Done 1 out of 1 | elapsed: 2.4s finished
[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.

[CV] ... C=1000.0, total= 2.5s
[CV] C=1000.0 ...

[Parallel(n_jobs=-1)]: Done 1 out of 1 | elapsed: 1.6s finished
[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.

```



```

[CV] ... C=1000.0, total= 1.7s
[CV] C=1000.0 ...

[Parallel(n_jobs=-1)]: Done 1 out of 1 | elapsed: 1.8s finished
[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.

[CV] ... C=1000.0, total= 1.9s
[CV] C=10000.0 ...

[Parallel(n_jobs=-1)]: Done 1 out of 1 | elapsed: 1.1s finished
[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.

[CV] ... C=10000.0, total= 1.2s
[CV] C=10000.0 ...

[Parallel(n_jobs=-1)]: Done 1 out of 1 | elapsed: 2.3s finished
[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.

[CV] ... C=10000.0, total= 2.4s
[CV] C=10000.0 ...

[Parallel(n_jobs=-1)]: Done 1 out of 1 | elapsed: 2.5s finished
[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.

[CV] ... C=10000.0, total= 2.7s
[CV] C=10000.0 ...

[Parallel(n_jobs=-1)]: Done 1 out of 1 | elapsed: 1.7s finished
[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.

[CV] ... C=10000.0, total= 1.8s
[CV] C=10000.0 ...

[Parallel(n_jobs=-1)]: Done 1 out of 1 | elapsed: 1.9s finished
[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.
D:\CodeNameSolus\Apps\lib\site-
packages\sklearn\model_selection\_validation.py:536: FitFailedWarning: Estimator
fit failed. The score on this train-test partition for these parameters will be
set to nan. Details:
ZeroDivisionError: float division by zero

FitFailedWarning)
[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.

[CV] ... C=10000.0, total= 2.1s
[CV] C=0 ...
[CV] ... C=0, total= 0.2s
[CV] C=0 ...

D:\CodeNameSolus\Apps\lib\site-
packages\sklearn\model_selection\_validation.py:536: FitFailedWarning: Estimator
fit failed. The score on this train-test partition for these parameters will be
set to nan. Details:
ZeroDivisionError: float division by zero

```

```

FitFailedWarning)
[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.

[CV] ... C=0, total=    1.1s
[CV] C=0 ...

D:\CodeNameSolus\Apps\lib\site-
packages\sklearn\model_selection\_validation.py:536: FitFailedWarning: Estimator
fit failed. The score on this train-test partition for these parameters will be
set to nan. Details:
ZeroDivisionError: float division by zero

FitFailedWarning)
[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.

[CV] ... C=0, total=    1.1s
[CV] C=0 ...

D:\CodeNameSolus\Apps\lib\site-
packages\sklearn\model_selection\_validation.py:536: FitFailedWarning: Estimator
fit failed. The score on this train-test partition for these parameters will be
set to nan. Details:
ZeroDivisionError: float division by zero

FitFailedWarning)
[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.

[CV] ... C=0, total=    1.0s
[CV] C=0 ...

D:\CodeNameSolus\Apps\lib\site-
packages\sklearn\model_selection\_validation.py:536: FitFailedWarning: Estimator
fit failed. The score on this train-test partition for these parameters will be
set to nan. Details:
ZeroDivisionError: float division by zero

FitFailedWarning)
[Parallel(n_jobs=1)]: Done 50 out of 50 | elapsed: 1.1min finished
[Parallel(n_jobs=-1)]: Using backend ThreadingBackend with 8 concurrent workers.

[CV] ... C=0, total=    1.1s
convergence after 256 epochs took 1 seconds

[Parallel(n_jobs=-1)]: Done 1 out of 1 | elapsed:    1.1s finished
[Parallel(n_jobs=-1)]: Using backend ThreadingBackend with 8 concurrent workers.
convergence after 253 epochs took 1 seconds

[Parallel(n_jobs=-1)]: Done 1 out of 1 | elapsed:    1.2s finished
[Parallel(n_jobs=-1)]: Using backend ThreadingBackend with 8 concurrent workers.

```

convergence after 257 epochs took 2 seconds

Trial 5

Fitting 5 folds for each of 10 candidates, totalling 50 fits

[CV] C=0.0001 ...

[Parallel(n_jobs=-1)]: Done 1 out of 1 | elapsed: 1.2s finished

[Parallel(n_jobs=1)]: Using backend SequentialBackend with 1 concurrent workers.

[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.

[Parallel(n_jobs=-1)]: Done 1 out of 1 | elapsed: 1.0s finished

[Parallel(n_jobs=1)]: Done 1 out of 1 | elapsed: 1.0s remaining: 0.0s

[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.

[CV] ... C=0.0001, total= 1.1s

[CV] C=0.0001 ...

[Parallel(n_jobs=-1)]: Done 1 out of 1 | elapsed: 0.4s finished

[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.

[CV] ... C=0.0001, total= 0.5s

[CV] C=0.0001 ...

[Parallel(n_jobs=-1)]: Done 1 out of 1 | elapsed: 0.4s finished

[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.

[CV] ... C=0.0001, total= 0.5s

[CV] C=0.0001 ...

[Parallel(n_jobs=-1)]: Done 1 out of 1 | elapsed: 0.4s finished

[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.

[CV] ... C=0.0001, total= 0.5s

[CV] C=0.0001 ...

[Parallel(n_jobs=-1)]: Done 1 out of 1 | elapsed: 0.4s finished

[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.

[CV] ... C=0.0001, total= 0.6s

[CV] C=0.001 ...

[Parallel(n_jobs=-1)]: Done 1 out of 1 | elapsed: 0.5s finished

[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.

[CV] ... C=0.001, total= 0.6s

[CV] C=0.001 ...

[Parallel(n_jobs=-1)]: Done 1 out of 1 | elapsed: 0.5s finished

[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.

[CV] ... C=0.001, total= 0.6s

[CV] C=0.001 ...

[Parallel(n_jobs=-1)]: Done 1 out of 1 | elapsed: 0.4s finished

[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.

[Parallel(n_jobs=-1)]: Done 1 out of 1 | elapsed: 0.1s finished

```

[CV] ... C=0.001, total= 0.5s
[CV] C=0.001 ...

[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.
[Parallel(n_jobs=-1)]: Done 1 out of 1 | elapsed: 0.1s finished

[CV] ... C=0.001, total= 0.2s
[CV] C=0.001 ...

[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.
[CV] ... C=0.001, total= 0.2s
[CV] C=0.01 ...

[Parallel(n_jobs=-1)]: Done 1 out of 1 | elapsed: 0.2s finished
[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.
[CV] ... C=0.01, total= 0.4s
[CV] C=0.01 ...

[Parallel(n_jobs=-1)]: Done 1 out of 1 | elapsed: 0.3s finished
[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.
[CV] ... C=0.01, total= 0.4s
[CV] C=0.01 ...

[Parallel(n_jobs=-1)]: Done 1 out of 1 | elapsed: 0.2s finished
[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.
[CV] ... C=0.01, total= 0.3s
[CV] C=0.01 ...

[Parallel(n_jobs=-1)]: Done 1 out of 1 | elapsed: 0.3s finished
[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.
[CV] ... C=0.01, total= 0.4s
[CV] C=0.01 ...

[Parallel(n_jobs=-1)]: Done 1 out of 1 | elapsed: 0.3s finished
[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.
[CV] ... C=0.01, total= 0.4s
[CV] C=0.1 ...

[Parallel(n_jobs=-1)]: Done 1 out of 1 | elapsed: 1.2s finished
[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.
[CV] ... C=0.1, total= 1.4s
[CV] C=0.1 ...

[Parallel(n_jobs=-1)]: Done 1 out of 1 | elapsed: 1.2s finished
[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.
[CV] ... C=0.1, total= 1.3s
[CV] C=0.1 ...

```

```

[Parallel(n_jobs=-1)]: Done 1 out of 1 | elapsed: 0.9s finished
[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.

[CV] ... C=0.1, total= 1.0s
[CV] C=0.1 ...

[Parallel(n_jobs=-1)]: Done 1 out of 1 | elapsed: 1.2s finished
[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.

[CV] ... C=0.1, total= 1.3s
[CV] C=0.1 ...

[Parallel(n_jobs=-1)]: Done 1 out of 1 | elapsed: 1.1s finished
[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.

[CV] ... C=0.1, total= 1.2s
[CV] C=1.0 ...

[Parallel(n_jobs=-1)]: Done 1 out of 1 | elapsed: 3.0s finished
[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.

[CV] ... C=1.0, total= 3.1s
[CV] C=1.0 ...

[Parallel(n_jobs=-1)]: Done 1 out of 1 | elapsed: 2.8s finished
[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.

[CV] ... C=1.0, total= 2.9s
[CV] C=1.0 ...

[Parallel(n_jobs=-1)]: Done 1 out of 1 | elapsed: 2.3s finished
[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.

[CV] ... C=1.0, total= 2.4s
[CV] C=1.0 ...

[Parallel(n_jobs=-1)]: Done 1 out of 1 | elapsed: 2.6s finished
[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.

[CV] ... C=1.0, total= 2.7s
[CV] C=1.0 ...

[Parallel(n_jobs=-1)]: Done 1 out of 1 | elapsed: 2.5s finished
[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.

[CV] ... C=1.0, total= 2.6s
[CV] C=10.0 ...

[Parallel(n_jobs=-1)]: Done 1 out of 1 | elapsed: 3.4s finished
[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.

[CV] ... C=10.0, total= 3.6s
[CV] C=10.0 ...

[Parallel(n_jobs=-1)]: Done 1 out of 1 | elapsed: 3.1s finished
[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.

```

```

[CV] ... C=10.0, total=    3.2s
[CV] C=10.0 ...

[Parallel(n_jobs=-1)]: Done    1 out of    1 | elapsed:    2.6s finished
[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.

[CV] ... C=10.0, total=    2.7s
[CV] C=10.0 ...

[Parallel(n_jobs=-1)]: Done    1 out of    1 | elapsed:    2.9s finished
[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.

[CV] ... C=10.0, total=    3.0s
[CV] C=10.0 ...

[Parallel(n_jobs=-1)]: Done    1 out of    1 | elapsed:    3.0s finished
[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.

[CV] ... C=10.0, total=    3.1s
[CV] C=100.0 ...

[Parallel(n_jobs=-1)]: Done    1 out of    1 | elapsed:    3.6s finished
[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.

[CV] ... C=100.0, total=    3.7s
[CV] C=100.0 ...

[Parallel(n_jobs=-1)]: Done    1 out of    1 | elapsed:    3.3s finished
[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.

[CV] ... C=100.0, total=    3.4s
[CV] C=100.0 ...

[Parallel(n_jobs=-1)]: Done    1 out of    1 | elapsed:    2.7s finished
[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.

[CV] ... C=100.0, total=    2.8s
[CV] C=100.0 ...

[Parallel(n_jobs=-1)]: Done    1 out of    1 | elapsed:    3.0s finished
[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.

[CV] ... C=100.0, total=    3.1s
[CV] C=100.0 ...

[Parallel(n_jobs=-1)]: Done    1 out of    1 | elapsed:    3.1s finished
[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.

[CV] ... C=100.0, total=    3.2s
[CV] C=1000.0 ...

[Parallel(n_jobs=-1)]: Done    1 out of    1 | elapsed:    3.6s finished
[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.

[CV] ... C=1000.0, total=    3.7s
[CV] C=1000.0 ...

```

```

[Parallel(n_jobs=-1)]: Done 1 out of 1 | elapsed: 3.3s finished
[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.

[CV] ... C=1000.0, total= 3.4s
[CV] C=1000.0 ...

[Parallel(n_jobs=-1)]: Done 1 out of 1 | elapsed: 2.7s finished
[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.

[CV] ... C=1000.0, total= 2.8s
[CV] C=1000.0 ...

[Parallel(n_jobs=-1)]: Done 1 out of 1 | elapsed: 3.0s finished
[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.

[CV] ... C=1000.0, total= 3.2s
[CV] C=1000.0 ...

[Parallel(n_jobs=-1)]: Done 1 out of 1 | elapsed: 3.1s finished
[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.

[CV] ... C=1000.0, total= 3.2s
[CV] C=10000.0 ...

[Parallel(n_jobs=-1)]: Done 1 out of 1 | elapsed: 3.5s finished
[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.

[CV] ... C=10000.0, total= 3.6s
[CV] C=10000.0 ...

[Parallel(n_jobs=-1)]: Done 1 out of 1 | elapsed: 3.2s finished
[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.

[CV] ... C=10000.0, total= 3.3s
[CV] C=10000.0 ...

[Parallel(n_jobs=-1)]: Done 1 out of 1 | elapsed: 2.6s finished
[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.

[CV] ... C=10000.0, total= 2.7s
[CV] C=10000.0 ...

[Parallel(n_jobs=-1)]: Done 1 out of 1 | elapsed: 2.9s finished
[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.

[CV] ... C=10000.0, total= 3.0s
[CV] C=10000.0 ...

[Parallel(n_jobs=-1)]: Done 1 out of 1 | elapsed: 3.0s finished
[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.
D:\CodeNameSolus\Apps\lib\site-
packages\sklearn\model_selection\_validation.py:536: FitFailedWarning: Estimator
fit failed. The score on this train-test partition for these parameters will be
set to nan. Details:
ZeroDivisionError: float division by zero

```

```

FitFailedWarning)
[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.
[CV] ... C=10000.0, total=    3.1s
[CV] C=0 ...
[CV] ... C=0, total=    0.1s
[CV] C=0 ...

D:\CodeNameSolus\Apps\lib\site-
packages\sklearn\model_selection\_validation.py:536: FitFailedWarning: Estimator
fit failed. The score on this train-test partition for these parameters will be
set to nan. Details:
ZeroDivisionError: float division by zero

FitFailedWarning)
[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.
[CV] ... C=0, total=    1.0s
[CV] C=0 ...

D:\CodeNameSolus\Apps\lib\site-
packages\sklearn\model_selection\_validation.py:536: FitFailedWarning: Estimator
fit failed. The score on this train-test partition for these parameters will be
set to nan. Details:
ZeroDivisionError: float division by zero

FitFailedWarning)
[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.
[CV] ... C=0, total=    1.0s
[CV] C=0 ...

D:\CodeNameSolus\Apps\lib\site-
packages\sklearn\model_selection\_validation.py:536: FitFailedWarning: Estimator
fit failed. The score on this train-test partition for these parameters will be
set to nan. Details:
ZeroDivisionError: float division by zero

FitFailedWarning)
[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.
[CV] ... C=0, total=    1.0s
[CV] C=0 ...

D:\CodeNameSolus\Apps\lib\site-
packages\sklearn\model_selection\_validation.py:536: FitFailedWarning: Estimator
fit failed. The score on this train-test partition for these parameters will be
set to nan. Details:
ZeroDivisionError: float division by zero

FitFailedWarning)

```



```
[Parallel(n_jobs=1)]: Done 50 out of 50 | elapsed: 1.6min finished
[Parallel(n_jobs=-1)]: Using backend ThreadingBackend with 8 concurrent workers.

[CV] ... C=0, total= 1.0s
convergence after 319 epochs took 1 seconds

[Parallel(n_jobs=-1)]: Done 1 out of 1 | elapsed: 1.3s finished
[Parallel(n_jobs=-1)]: Using backend ThreadingBackend with 8 concurrent workers.

convergence after 321 epochs took 2 seconds

[Parallel(n_jobs=-1)]: Done 1 out of 1 | elapsed: 1.4s finished
[Parallel(n_jobs=-1)]: Using backend ThreadingBackend with 8 concurrent workers.

convergence after 319 epochs took 1 seconds

[Parallel(n_jobs=-1)]: Done 1 out of 1 | elapsed: 1.4s finished
```

```
[21]: metrics_adult_LR
```

```
[21]: array([[0.8642, 0.68077104, 0.77842071, 0.84619571, 0.64524228,
0.75496199],
[0.8536, 0.65633803, 0.76133554, 0.84993288, 0.64794007,
0.75537577],
[0.8516, 0.65131579, 0.75878141, 0.84779217, 0.64409943,
0.75336962],
[0.857, 0.67749211, 0.77642428, 0.84732049, 0.65234633,
0.76128445],
[0.8574, 0.67983835, 0.7787814, 0.84844527, 0.65776321,
0.76535516]])
```

Random Forest: ADULT

```
[22]: metrics_adult_RF = np.zeros((5, 6))

for i in range(5):
    print("\n Trial", i+1)
    # randomly split the data. size of training data will be 5000
    X_train, X_test, Y_train, Y_test = train_test_split(X_adult, Y_adult,
    ↪train_size = 5000)

    # initialize the classifier
    classifier_RF = RandomForestClassifier(n_estimators = 1024, verbose = 0,
    ↪n_jobs = -1)

    Feature_list = [1, 2, 4, 6, 8, 12]

    parameters = {'max_features': Feature_list}
```

```

search_clf = GridSearchCV(classifier_RF, parameters, cv =
↳StratifiedKFold(n_splits = 5),
                                scoring = ['accuracy', 'roc_auc_ovr', 'f1_micro'],
↳refit = False, verbose = 0)
match_model = search_clf.fit(X_train, Y_train)

match_param = match_model.cv_results_['params'][np.argmin(match_model.
↳cv_results_['rank_test_roc_auc_ovr'])]
classifier_RF.set_params(**match_param)
classifier_RF.fit(X_train, Y_train)
Y_pred_train_auc = classifier_RF.predict(X_train)
Y_pred_test_auc = classifier_RF.predict(X_test)
metrics_adult_RF[i, 2] = roc_auc_score(Y_train, Y_pred_train_auc)
metrics_adult_RF[i, 5] = roc_auc_score(Y_test, Y_pred_test_auc)

match_param = match_model.cv_results_['params'][np.argmin(match_model.
↳cv_results_['rank_test_accuracy'])]
classifier_RF.set_params(**match_param)
classifier_RF.fit(X_train, Y_train)
Y_pred_train_acc = classifier_RF.predict(X_train)
Y_pred_test_acc = classifier_RF.predict(X_test)
metrics_adult_RF[i, 0] = accuracy_score(Y_train, Y_pred_train_acc)
metrics_adult_RF[i, 3] = accuracy_score(Y_test, Y_pred_test_acc)

match_param = match_model.cv_results_['params'][np.argmin(match_model.
↳cv_results_['rank_test_f1_micro'])]
classifier_RF.set_params(**match_param)
classifier_RF.fit(X_train, Y_train)
Y_pred_train_f1 = classifier_RF.predict(X_train)
Y_pred_test_f1 = classifier_RF.predict(X_test)
metrics_adult_RF[i, 1] = f1_score(Y_train, Y_pred_train_f1)
metrics_adult_RF[i, 4] = f1_score(Y_test, Y_pred_test_f1)

```

Trial 1

Fitting 5 folds for each of 6 candidates, totalling 30 fits

[CV] max_features=1 ...

[Parallel(n_jobs=1)]: Using backend SequentialBackend with 1 concurrent workers.

[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.

[Parallel(n_jobs=-1)]: Done 25 tasks | elapsed: 1.2s

[Parallel(n_jobs=-1)]: Done 862 tasks | elapsed: 2.2s

[Parallel(n_jobs=-1)]: Done 1009 out of 1024 | elapsed: 2.3s remaining:

0.0s

[Parallel(n_jobs=-1)]: Done 1024 out of 1024 | elapsed: 2.4s finished

[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.

```

[Parallel(n_jobs=8)]: Done 25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks     | elapsed:    0.1s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.1s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks     | elapsed:    0.1s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.1s finished

[CV] ... max_features=1, total=    3.2s
[CV] max_features=1 ...

[Parallel(n_jobs=1)]: Done 1 out of 1 | elapsed:    3.1s remaining:    0.0s
[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.
[Parallel(n_jobs=-1)]: Done 34 tasks      | elapsed:    0.0s
[Parallel(n_jobs=-1)]: Done 1024 out of 1024 | elapsed:    0.9s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks     | elapsed:    0.1s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.1s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks     | elapsed:    0.1s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.1s finished

[CV] ... max_features=1, total=    1.8s
[CV] max_features=1 ...

[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.
[Parallel(n_jobs=-1)]: Done 34 tasks      | elapsed:    0.0s
[Parallel(n_jobs=-1)]: Done 1024 out of 1024 | elapsed:    0.9s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks     | elapsed:    0.1s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.1s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.

```

```

[Parallel(n_jobs=8)]: Done 25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks     | elapsed:    0.1s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.1s finished

[CV] ... max_features=1, total=    1.8s
[CV] max_features=1 ...

[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.
[Parallel(n_jobs=-1)]: Done 34 tasks     | elapsed:    0.0s
[Parallel(n_jobs=-1)]: Done 1024 out of 1024 | elapsed:    1.0s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks     | elapsed:    0.1s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.1s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks     | elapsed:    0.1s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.1s finished

[CV] ... max_features=1, total=    1.9s
[CV] max_features=1 ...

[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.
[Parallel(n_jobs=-1)]: Done 34 tasks     | elapsed:    0.0s
[Parallel(n_jobs=-1)]: Done 1024 out of 1024 | elapsed:    1.0s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks     | elapsed:    0.1s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.1s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks     | elapsed:    0.1s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.1s finished

[CV] ... max_features=1, total=    1.9s

```

```

[CV] max_features=2 ...

[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.
[Parallel(n_jobs=-1)]: Done 34 tasks      | elapsed:    0.0s
[Parallel(n_jobs=-1)]: Done 1024 out of 1024 | elapsed:    1.0s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks     | elapsed:    0.1s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.1s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks     | elapsed:    0.1s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.1s finished

[CV] ... max_features=2, total=    1.8s
[CV] max_features=2 ...

[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.
[Parallel(n_jobs=-1)]: Done 34 tasks      | elapsed:    0.0s
[Parallel(n_jobs=-1)]: Done 1024 out of 1024 | elapsed:    1.0s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks     | elapsed:    0.1s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.1s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.0s finished

[CV] ... max_features=2, total=    1.8s
[CV] max_features=2 ...

[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.
[Parallel(n_jobs=-1)]: Done 34 tasks      | elapsed:    0.0s
[Parallel(n_jobs=-1)]: Done 1024 out of 1024 | elapsed:    0.9s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks     | elapsed:    0.0s

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[Parallel(n_jobs=8)]: Done 349 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks      | elapsed:    0.1s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.1s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks       | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.1s finished

[CV] ... max_features=2, total=    1.7s
[CV] max_features=2 ...

[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.
[Parallel(n_jobs=-1)]: Done 34 tasks      | elapsed:    0.0s
[Parallel(n_jobs=-1)]: Done 1024 out of 1024 | elapsed:    0.9s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks       | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.1s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks       | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.1s finished

[CV] ... max_features=2, total=    1.7s
[CV] max_features=2 ...

[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.
[Parallel(n_jobs=-1)]: Done 34 tasks      | elapsed:    0.0s
[Parallel(n_jobs=-1)]: Done 1024 out of 1024 | elapsed:    0.9s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks       | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks      | elapsed:    0.1s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.1s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks       | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks      | elapsed:    0.0s

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[Parallel(n_jobs=8)]: Done 632 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks      | elapsed:    0.1s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.1s finished

[CV] ... max_features=2, total=    1.7s
[CV] max_features=4 ...

[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.
[Parallel(n_jobs=-1)]: Done 34 tasks      | elapsed:    0.0s
[Parallel(n_jobs=-1)]: Done 1024 out of 1024 | elapsed:    0.9s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks     | elapsed:    0.1s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.1s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks     | elapsed:    0.1s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.1s finished

[CV] ... max_features=4, total=    1.7s
[CV] max_features=4 ...

[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.
[Parallel(n_jobs=-1)]: Done 34 tasks      | elapsed:    0.0s
[Parallel(n_jobs=-1)]: Done 1024 out of 1024 | elapsed:    0.9s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks     | elapsed:    0.1s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.1s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.1s finished

[CV] ... max_features=4, total=    1.7s
[CV] max_features=4 ...

[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.
[Parallel(n_jobs=-1)]: Done 34 tasks      | elapsed:    0.0s

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[Parallel(n_jobs=-1)]: Done 1024 out of 1024 | elapsed:    0.9s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks     | elapsed:    0.1s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.1s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.1s finished

[CV] ... max_features=4, total=    1.8s
[CV] max_features=4 ...

[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.
[Parallel(n_jobs=-1)]: Done 34 tasks      | elapsed:    0.0s
[Parallel(n_jobs=-1)]: Done 1024 out of 1024 | elapsed:    0.9s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks     | elapsed:    0.1s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.1s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.0s finished

[CV] ... max_features=4, total=    1.7s
[CV] max_features=4 ...

[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.
[Parallel(n_jobs=-1)]: Done 34 tasks      | elapsed:    0.0s
[Parallel(n_jobs=-1)]: Done 1024 out of 1024 | elapsed:    0.9s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks     | elapsed:    0.1s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.1s finished

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[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks     | elapsed:    0.1s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.1s finished

[CV] ... max_features=4, total=    1.7s
[CV] max_features=6 ...

[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.
[Parallel(n_jobs=-1)]: Done 34 tasks     | elapsed:    0.0s
[Parallel(n_jobs=-1)]: Done 1024 out of 1024 | elapsed:    0.9s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.0s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.1s finished

[CV] ... max_features=6, total=    1.8s
[CV] max_features=6 ...

[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.
[Parallel(n_jobs=-1)]: Done 34 tasks     | elapsed:    0.0s
[Parallel(n_jobs=-1)]: Done 1024 out of 1024 | elapsed:    0.9s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.0s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks     | elapsed:    0.1s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.1s finished

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[CV] ... max_features=6, total=    1.8s
[CV] max_features=6 ...

[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.
[Parallel(n_jobs=-1)]: Done  34 tasks      | elapsed:    0.0s
[Parallel(n_jobs=-1)]: Done 1024 out of 1024 | elapsed:    1.0s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done  25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.1s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done  25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.0s finished

[CV] ... max_features=6, total=    1.8s
[CV] max_features=6 ...

[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.
[Parallel(n_jobs=-1)]: Done  34 tasks      | elapsed:    0.0s
[Parallel(n_jobs=-1)]: Done 1024 out of 1024 | elapsed:    0.9s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done  25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks      | elapsed:    0.1s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.1s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done  25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks      | elapsed:    0.1s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.1s finished

[CV] ... max_features=6, total=    1.7s
[CV] max_features=6 ...

[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.
[Parallel(n_jobs=-1)]: Done  34 tasks      | elapsed:    0.0s
[Parallel(n_jobs=-1)]: Done 1024 out of 1024 | elapsed:    0.9s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done  25 tasks      | elapsed:    0.0s

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[Parallel(n_jobs=8)]: Done 146 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.0s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks       | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.1s finished

[CV] ... max_features=6, total=    1.7s
[CV] max_features=8 ...

[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.
[Parallel(n_jobs=-1)]: Done 34 tasks      | elapsed:    0.0s
[Parallel(n_jobs=-1)]: Done 1024 out of 1024 | elapsed:    1.0s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks       | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.1s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks       | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.0s finished

[CV] ... max_features=8, total=    1.8s
[CV] max_features=8 ...

[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.
[Parallel(n_jobs=-1)]: Done 34 tasks      | elapsed:    0.0s
[Parallel(n_jobs=-1)]: Done 1024 out of 1024 | elapsed:    1.0s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks       | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks      | elapsed:    0.1s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.1s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks       | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks      | elapsed:    0.0s

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[Parallel(n_jobs=8)]: Done 349 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.0s finished

[CV] ... max_features=8, total=    1.8s
[CV] max_features=8 ...

[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.
[Parallel(n_jobs=-1)]: Done  34 tasks      | elapsed:    0.0s
[Parallel(n_jobs=-1)]: Done 1024 out of 1024 | elapsed:    1.1s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done  25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks      | elapsed:    0.1s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.1s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done  25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.1s finished

[CV] ... max_features=8, total=    2.0s
[CV] max_features=8 ...

[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.
[Parallel(n_jobs=-1)]: Done  34 tasks      | elapsed:    0.0s
[Parallel(n_jobs=-1)]: Done 1024 out of 1024 | elapsed:    1.0s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done  25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.0s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done  25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.0s finished

[CV] ... max_features=8, total=    1.8s
[CV] max_features=8 ...

[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.

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[Parallel(n_jobs=-1)]: Done 34 tasks      | elapsed:    0.0s
[Parallel(n_jobs=-1)]: Done 1024 out of 1024 | elapsed:    1.0s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.0s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.0s finished

[CV] ... max_features=8, total=    1.8s
[CV] max_features=12 ...

[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.
[Parallel(n_jobs=-1)]: Done 34 tasks      | elapsed:    0.0s
[Parallel(n_jobs=-1)]: Done 1024 out of 1024 | elapsed:    1.1s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.0s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks     | elapsed:    0.1s
[Parallel(n_jobs=8)]: Done 997 tasks     | elapsed:    0.1s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.1s finished

[CV] ... max_features=12, total=    2.0s
[CV] max_features=12 ...

[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.
[Parallel(n_jobs=-1)]: Done 34 tasks      | elapsed:    0.0s
[Parallel(n_jobs=-1)]: Done 1024 out of 1024 | elapsed:    1.0s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks     | elapsed:    0.1s

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[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.1s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.1s finished

[CV] ... max_features=12, total=    1.8s
[CV] max_features=12 ...

[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.
[Parallel(n_jobs=-1)]: Done 34 tasks      | elapsed:    0.0s
[Parallel(n_jobs=-1)]: Done 1024 out of 1024 | elapsed:    1.0s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks     | elapsed:    0.1s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.1s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.0s finished

[CV] ... max_features=12, total=    1.9s
[CV] max_features=12 ...

[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.
[Parallel(n_jobs=-1)]: Done 34 tasks      | elapsed:    0.0s
[Parallel(n_jobs=-1)]: Done 1024 out of 1024 | elapsed:    1.1s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks     | elapsed:    0.1s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.1s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.0s finished

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[CV] ... max_features=12, total= 1.9s
[CV] max_features=12 ...

[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.
[Parallel(n_jobs=-1)]: Done 34 tasks | elapsed: 0.0s
[Parallel(n_jobs=-1)]: Done 1024 out of 1024 | elapsed: 1.0s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks | elapsed: 0.0s
[Parallel(n_jobs=8)]: Done 146 tasks | elapsed: 0.0s
[Parallel(n_jobs=8)]: Done 349 tasks | elapsed: 0.0s
[Parallel(n_jobs=8)]: Done 632 tasks | elapsed: 0.0s
[Parallel(n_jobs=8)]: Done 997 tasks | elapsed: 0.0s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed: 0.1s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks | elapsed: 0.0s
[Parallel(n_jobs=8)]: Done 146 tasks | elapsed: 0.0s
[Parallel(n_jobs=8)]: Done 349 tasks | elapsed: 0.0s
[Parallel(n_jobs=8)]: Done 632 tasks | elapsed: 0.0s
[Parallel(n_jobs=8)]: Done 997 tasks | elapsed: 0.0s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed: 0.1s finished

[CV] ... max_features=12, total= 1.9s

[Parallel(n_jobs=1)]: Done 30 out of 30 | elapsed: 55.7s finished
[Parallel(n_jobs=-1)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=-1)]: Done 25 tasks | elapsed: 0.0s

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[Parallel(n_jobs=-1)]: Done 146 tasks | elapsed: 0.2s

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[Parallel(n_jobs=-1)]: Done 349 tasks | elapsed: 0.5s

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[Parallel(n_jobs=-1)]: Done 632 tasks | elapsed: 1.1s

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[Parallel(n_jobs=-1)]: Done 997 tasks      | elapsed:    1.8s
[Parallel(n_jobs=-1)]: Done 1024 out of 1024 | elapsed:    1.8s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks     | elapsed:    0.1s
[Parallel(n_jobs=8)]: Done 997 tasks     | elapsed:    0.3s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.3s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks     | elapsed:    0.2s
[Parallel(n_jobs=8)]: Done 632 tasks     | elapsed:    0.4s
[Parallel(n_jobs=8)]: Done 997 tasks     | elapsed:    0.7s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.7s finished
[Parallel(n_jobs=-1)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=-1)]: Done 25 tasks      | elapsed:    0.0s

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[Parallel(n_jobs=-1)]: Done 146 tasks | elapsed: 0.2s

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[Parallel(n_jobs=-1)]: Done 349 tasks | elapsed: 0.5s

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[Parallel(n_jobs=-1)]: Done 632 tasks | elapsed: 1.0s

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[Parallel(n_jobs=-1)]: Done 997 tasks      | elapsed:    1.7s
[Parallel(n_jobs=-1)]: Done 1024 out of 1024 | elapsed:    1.7s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks     | elapsed:    0.1s
[Parallel(n_jobs=8)]: Done 997 tasks     | elapsed:    0.2s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.2s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks     | elapsed:    0.2s
[Parallel(n_jobs=8)]: Done 632 tasks     | elapsed:    0.4s
[Parallel(n_jobs=8)]: Done 997 tasks     | elapsed:    0.7s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.8s finished
[Parallel(n_jobs=-1)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=-1)]: Done 25 tasks      | elapsed:    0.0s

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[Parallel(n_jobs=-1)]: Done 146 tasks | elapsed: 0.2s

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[Parallel(n_jobs=-1)]: Done 349 tasks | elapsed: 0.5s
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[Parallel(n_jobs=-1)]: Done 632 tasks | elapsed: 1.1s

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building tree 976 of 1024
building tree 977 of 1024building tree 978 of 1024

building tree 979 of 1024
building tree 980 of 1024building tree 981 of 1024
building tree 982 of 1024building tree 983 of 1024

building tree 984 of 1024
building tree 985 of 1024building tree 986 of 1024

building tree 987 of 1024building tree 988 of 1024building tree 989 of 1024

building tree 990 of 1024

building tree 991 of 1024
building tree 992 of 1024
building tree 993 of 1024
building tree 994 of 1024building tree 995 of 1024building tree 996 of
1024building tree 997 of 1024

building tree 998 of 1024building tree 999 of 1024

building tree 1000 of 1024

building tree 1001 of 1024building tree 1002 of 1024

building tree 1003 of 1024
building tree 1004 of 1024building tree 1005 of 1024
building tree 1006 of 1024building tree 1007 of 1024

building tree 1008 of 1024
building tree 1009 of 1024building tree 1010 of 1024

building tree 1011 of 1024
building tree 1012 of 1024
building tree 1013 of 1024
building tree 1014 of 1024
building tree 1015 of 1024
building tree 1016 of 1024
building tree 1017 of 1024
building tree 1018 of 1024
building tree 1019 of 1024building tree 1020 of 1024

building tree 1021 of 1024building tree 1022 of 1024
building tree 1023 of 1024

building tree 1024 of 1024

[Parallel(n_jobs=-1)]: Done 997 tasks | elapsed: 1.7s
[Parallel(n_jobs=-1)]: Done 1024 out of 1024 | elapsed: 1.8s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks | elapsed: 0.0s
[Parallel(n_jobs=8)]: Done 146 tasks | elapsed: 0.0s
[Parallel(n_jobs=8)]: Done 349 tasks | elapsed: 0.0s
[Parallel(n_jobs=8)]: Done 632 tasks | elapsed: 0.1s
[Parallel(n_jobs=8)]: Done 997 tasks | elapsed: 0.2s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed: 0.2s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks | elapsed: 0.0s
[Parallel(n_jobs=8)]: Done 146 tasks | elapsed: 0.0s
[Parallel(n_jobs=8)]: Done 349 tasks | elapsed: 0.2s
[Parallel(n_jobs=8)]: Done 632 tasks | elapsed: 0.4s
[Parallel(n_jobs=8)]: Done 997 tasks | elapsed: 0.7s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed: 0.7s finished
[Parallel(n_jobs=1)]: Using backend SequentialBackend with 1 concurrent workers.

Trial 2

Fitting 5 folds for each of 6 candidates, totalling 30 fits
[CV] max_features=1 ...

[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.
[Parallel(n_jobs=-1)]: Done 34 tasks | elapsed: 0.0s
[Parallel(n_jobs=-1)]: Done 1024 out of 1024 | elapsed: 1.0s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks | elapsed: 0.0s
[Parallel(n_jobs=8)]: Done 146 tasks | elapsed: 0.0s
[Parallel(n_jobs=8)]: Done 349 tasks | elapsed: 0.0s
[Parallel(n_jobs=8)]: Done 632 tasks | elapsed: 0.0s

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[Parallel(n_jobs=8)]: Done 997 tasks      | elapsed:    0.1s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.1s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks     | elapsed:    0.1s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.1s finished

[CV] ... max_features=1, total=    1.9s
[CV] max_features=1 ...

[Parallel(n_jobs=1)]: Done 1 out of 1 | elapsed:    1.8s remaining:    0.0s
[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.
[Parallel(n_jobs=-1)]: Done 34 tasks     | elapsed:    0.0s
[Parallel(n_jobs=-1)]: Done 1024 out of 1024 | elapsed:    1.1s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks     | elapsed:    0.1s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.1s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks     | elapsed:    0.1s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.1s finished

[CV] ... max_features=1, total=    2.0s
[CV] max_features=1 ...

[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.
[Parallel(n_jobs=-1)]: Done 34 tasks     | elapsed:    0.0s
[Parallel(n_jobs=-1)]: Done 1024 out of 1024 | elapsed:    1.0s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks     | elapsed:    0.1s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.1s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks     | elapsed:    0.0s

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[Parallel(n_jobs=8)]: Done 997 tasks      | elapsed:    0.1s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.1s finished

[CV] ... max_features=1, total=    1.9s
[CV] max_features=1 ...

[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.
[Parallel(n_jobs=-1)]: Done   34 tasks      | elapsed:    0.0s
[Parallel(n_jobs=-1)]: Done 1024 out of 1024 | elapsed:    1.0s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done   25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done  146 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done  349 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done  632 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done  997 tasks      | elapsed:    0.1s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.1s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done   25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done  146 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done  349 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done  632 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done  997 tasks      | elapsed:    0.1s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.1s finished

[CV] ... max_features=1, total=    1.9s
[CV] max_features=1 ...

[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.
[Parallel(n_jobs=-1)]: Done   34 tasks      | elapsed:    0.0s
[Parallel(n_jobs=-1)]: Done 1024 out of 1024 | elapsed:    1.0s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done   25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done  146 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done  349 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done  632 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done  997 tasks      | elapsed:    0.1s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.1s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done   25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done  146 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done  349 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done  632 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done  997 tasks      | elapsed:    0.1s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.1s finished

[CV] ... max_features=1, total=    1.8s
[CV] max_features=2 ...

[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.
[Parallel(n_jobs=-1)]: Done   34 tasks      | elapsed:    0.0s
[Parallel(n_jobs=-1)]: Done 1024 out of 1024 | elapsed:    1.0s finished

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[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks     | elapsed:    0.1s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.1s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks     | elapsed:    0.1s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.1s finished

[CV] ... max_features=2, total=    1.9s
[CV] max_features=2 ...

[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.
[Parallel(n_jobs=-1)]: Done 34 tasks      | elapsed:    0.0s
[Parallel(n_jobs=-1)]: Done 1024 out of 1024 | elapsed:    1.0s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks     | elapsed:    0.1s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.1s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks     | elapsed:    0.1s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.1s finished

[CV] ... max_features=2, total=    1.8s
[CV] max_features=2 ...

[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.
[Parallel(n_jobs=-1)]: Done 34 tasks      | elapsed:    0.0s
[Parallel(n_jobs=-1)]: Done 1024 out of 1024 | elapsed:    1.0s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks     | elapsed:    0.1s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.1s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.

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[Parallel(n_jobs=8)]: Done 25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks     | elapsed:    0.1s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.1s finished

[CV] ... max_features=2, total=    1.9s
[CV] max_features=2 ...

[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.
[Parallel(n_jobs=-1)]: Done 34 tasks     | elapsed:    0.0s
[Parallel(n_jobs=-1)]: Done 1024 out of 1024 | elapsed:    1.0s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks     | elapsed:    0.1s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.1s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks     | elapsed:    0.1s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.1s finished

[CV] ... max_features=2, total=    1.9s
[CV] max_features=2 ...

[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.
[Parallel(n_jobs=-1)]: Done 34 tasks     | elapsed:    0.0s
[Parallel(n_jobs=-1)]: Done 1024 out of 1024 | elapsed:    1.1s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks     | elapsed:    0.1s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.1s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks     | elapsed:    0.1s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.1s finished

[CV] ... max_features=2, total=    1.9s

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[CV] max_features=4 ...

[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.
[Parallel(n_jobs=-1)]: Done 34 tasks      | elapsed:    0.0s
[Parallel(n_jobs=-1)]: Done 1024 out of 1024 | elapsed:    1.0s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks     | elapsed:    0.1s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.1s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks     | elapsed:    0.1s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.1s finished

[CV] ... max_features=4, total=    1.9s
[CV] max_features=4 ...

[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.
[Parallel(n_jobs=-1)]: Done 34 tasks      | elapsed:    0.0s
[Parallel(n_jobs=-1)]: Done 1024 out of 1024 | elapsed:    1.1s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks     | elapsed:    0.1s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.1s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks     | elapsed:    0.1s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.1s finished

[CV] ... max_features=4, total=    1.9s
[CV] max_features=4 ...

[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.
[Parallel(n_jobs=-1)]: Done 34 tasks      | elapsed:    0.0s
[Parallel(n_jobs=-1)]: Done 1024 out of 1024 | elapsed:    1.0s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks     | elapsed:    0.0s

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[Parallel(n_jobs=8)]: Done 349 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks      | elapsed:    0.1s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.1s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks       | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks      | elapsed:    0.1s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.1s finished

[CV] ... max_features=4, total=    1.9s
[CV] max_features=4 ...

[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.
[Parallel(n_jobs=-1)]: Done 34 tasks      | elapsed:    0.0s
[Parallel(n_jobs=-1)]: Done 1024 out of 1024 | elapsed:    1.0s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks       | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks      | elapsed:    0.1s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.1s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks       | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks      | elapsed:    0.1s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.1s finished

[CV] ... max_features=4, total=    1.9s
[CV] max_features=4 ...

[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.
[Parallel(n_jobs=-1)]: Done 34 tasks      | elapsed:    0.0s
[Parallel(n_jobs=-1)]: Done 1024 out of 1024 | elapsed:    1.0s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks       | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks      | elapsed:    0.1s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.1s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks       | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks      | elapsed:    0.0s

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[Parallel(n_jobs=8)]: Done 632 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks      | elapsed:    0.1s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.1s finished

[CV] ... max_features=4, total=    1.9s
[CV] max_features=6 ...

[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.
[Parallel(n_jobs=-1)]: Done 34 tasks      | elapsed:    0.0s
[Parallel(n_jobs=-1)]: Done 1024 out of 1024 | elapsed:    1.2s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks     | elapsed:    0.1s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.1s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks     | elapsed:    0.1s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.1s finished

[CV] ... max_features=6, total=    2.1s
[CV] max_features=6 ...

[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.
[Parallel(n_jobs=-1)]: Done 34 tasks      | elapsed:    0.0s
[Parallel(n_jobs=-1)]: Done 1024 out of 1024 | elapsed:    1.2s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks     | elapsed:    0.1s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.1s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks     | elapsed:    0.1s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.1s finished

[CV] ... max_features=6, total=    2.0s
[CV] max_features=6 ...

[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.
[Parallel(n_jobs=-1)]: Done 34 tasks      | elapsed:    0.0s

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[Parallel(n_jobs=-1)]: Done 1024 out of 1024 | elapsed:    1.1s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks     | elapsed:    0.1s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.1s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks     | elapsed:    0.1s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.1s finished

[CV] ... max_features=6, total=    1.9s
[CV] max_features=6 ...

[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.
[Parallel(n_jobs=-1)]: Done 34 tasks      | elapsed:    0.0s
[Parallel(n_jobs=-1)]: Done 1024 out of 1024 | elapsed:    1.1s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks     | elapsed:    0.1s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.1s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks     | elapsed:    0.1s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.1s finished

[CV] ... max_features=6, total=    1.9s
[CV] max_features=6 ...

[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.
[Parallel(n_jobs=-1)]: Done 34 tasks      | elapsed:    0.0s
[Parallel(n_jobs=-1)]: Done 1024 out of 1024 | elapsed:    1.1s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks     | elapsed:    0.1s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.1s finished

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[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks     | elapsed:    0.1s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.1s finished

[CV] ... max_features=6, total=    1.9s
[CV] max_features=8 ...

[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.
[Parallel(n_jobs=-1)]: Done 34 tasks     | elapsed:    0.0s
[Parallel(n_jobs=-1)]: Done 1024 out of 1024 | elapsed:    1.1s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks     | elapsed:    0.1s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.1s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks     | elapsed:    0.1s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.1s finished

[CV] ... max_features=8, total=    1.9s
[CV] max_features=8 ...

[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.
[Parallel(n_jobs=-1)]: Done 34 tasks     | elapsed:    0.0s
[Parallel(n_jobs=-1)]: Done 1024 out of 1024 | elapsed:    1.1s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks     | elapsed:    0.1s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.1s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks     | elapsed:    0.1s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.1s finished

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[CV] ... max_features=8, total= 2.0s
[CV] max_features=8 ...

[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.
[Parallel(n_jobs=-1)]: Done 34 tasks | elapsed: 0.0s
[Parallel(n_jobs=-1)]: Done 1024 out of 1024 | elapsed: 1.1s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks | elapsed: 0.0s
[Parallel(n_jobs=8)]: Done 146 tasks | elapsed: 0.0s
[Parallel(n_jobs=8)]: Done 349 tasks | elapsed: 0.0s
[Parallel(n_jobs=8)]: Done 632 tasks | elapsed: 0.0s
[Parallel(n_jobs=8)]: Done 997 tasks | elapsed: 0.1s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed: 0.1s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks | elapsed: 0.0s
[Parallel(n_jobs=8)]: Done 146 tasks | elapsed: 0.0s
[Parallel(n_jobs=8)]: Done 349 tasks | elapsed: 0.0s
[Parallel(n_jobs=8)]: Done 632 tasks | elapsed: 0.0s
[Parallel(n_jobs=8)]: Done 997 tasks | elapsed: 0.1s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed: 0.1s finished

[CV] ... max_features=8, total= 1.9s
[CV] max_features=8 ...

[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.
[Parallel(n_jobs=-1)]: Done 34 tasks | elapsed: 0.0s
[Parallel(n_jobs=-1)]: Done 1024 out of 1024 | elapsed: 1.1s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks | elapsed: 0.0s
[Parallel(n_jobs=8)]: Done 146 tasks | elapsed: 0.0s
[Parallel(n_jobs=8)]: Done 349 tasks | elapsed: 0.0s
[Parallel(n_jobs=8)]: Done 632 tasks | elapsed: 0.0s
[Parallel(n_jobs=8)]: Done 997 tasks | elapsed: 0.1s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed: 0.1s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks | elapsed: 0.0s
[Parallel(n_jobs=8)]: Done 146 tasks | elapsed: 0.0s
[Parallel(n_jobs=8)]: Done 349 tasks | elapsed: 0.0s
[Parallel(n_jobs=8)]: Done 632 tasks | elapsed: 0.0s
[Parallel(n_jobs=8)]: Done 997 tasks | elapsed: 0.1s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed: 0.1s finished

[CV] ... max_features=8, total= 2.0s
[CV] max_features=8 ...

[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.
[Parallel(n_jobs=-1)]: Done 34 tasks | elapsed: 0.0s
[Parallel(n_jobs=-1)]: Done 1024 out of 1024 | elapsed: 1.1s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks | elapsed: 0.0s

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[Parallel(n_jobs=8)]: Done 146 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks      | elapsed:    0.1s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.1s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks       | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks      | elapsed:    0.1s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.1s finished

[CV] ... max_features=8, total=    2.0s
[CV] max_features=12 ...

[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.
[Parallel(n_jobs=-1)]: Done 34 tasks      | elapsed:    0.0s
[Parallel(n_jobs=-1)]: Done 1024 out of 1024 | elapsed:    1.2s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks       | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks      | elapsed:    0.1s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.1s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks       | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks      | elapsed:    0.1s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.1s finished

[CV] ... max_features=12, total=    2.0s
[CV] max_features=12 ...

[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.
[Parallel(n_jobs=-1)]: Done 34 tasks      | elapsed:    0.0s
[Parallel(n_jobs=-1)]: Done 1024 out of 1024 | elapsed:    1.2s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks       | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks      | elapsed:    0.1s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.1s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks       | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks      | elapsed:    0.0s

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[Parallel(n_jobs=8)]: Done 349 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks      | elapsed:    0.1s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.1s finished

[CV] ... max_features=12, total=    2.1s
[CV] max_features=12 ...

[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.
[Parallel(n_jobs=-1)]: Done  34 tasks      | elapsed:    0.0s
[Parallel(n_jobs=-1)]: Done 1024 out of 1024 | elapsed:    1.2s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done  25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks      | elapsed:    0.1s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.1s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done  25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks      | elapsed:    0.1s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.1s finished

[CV] ... max_features=12, total=    2.1s
[CV] max_features=12 ...

[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.
[Parallel(n_jobs=-1)]: Done  34 tasks      | elapsed:    0.0s
[Parallel(n_jobs=-1)]: Done 1024 out of 1024 | elapsed:    1.2s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done  25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks      | elapsed:    0.1s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.1s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done  25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks      | elapsed:    0.1s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.1s finished

[CV] ... max_features=12, total=    2.0s
[CV] max_features=12 ...

[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.

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[Parallel(n_jobs=-1)]: Done 34 tasks      | elapsed:    0.0s
[Parallel(n_jobs=-1)]: Done 1024 out of 1024 | elapsed:    1.2s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks     | elapsed:    0.1s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.1s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks     | elapsed:    0.1s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.1s finished

[CV] ... max_features=12, total=    2.0s

[Parallel(n_jobs=1)]: Done 30 out of 30 | elapsed:   58.0s finished
[Parallel(n_jobs=-1)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=-1)]: Done 25 tasks      | elapsed:    0.0s

building tree 1 of 1024
building tree 2 of 1024
building tree 3 of 1024
building tree 4 of 1024
building tree 5 of 1024
building tree 6 of 1024
building tree 7 of 1024
building tree 8 of 1024
building tree 9 of 1024
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building tree 26 of 1024building tree 27 of 1024

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building tree 28 of 1024

building tree 29 of 1024

building tree 30 of 1024

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building tree 37 of 1024

building tree 38 of 1024

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building tree 41 of 1024building tree 42 of 1024

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building tree 185 of 1024
[Parallel(n_jobs=-1)]: Done 146 tasks | elapsed: 0.2s

building tree 186 of 1024building tree 187 of 1024

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[Parallel(n_jobs=-1)]: Done 349 tasks | elapsed: 0.6s

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[Parallel(n_jobs=-1)]: Done 632 tasks | elapsed: 1.2s

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[Parallel(n_jobs=-1)]: Done 997 tasks      | elapsed:    2.0s
[Parallel(n_jobs=-1)]: Done 1024 out of 1024 | elapsed:    2.0s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks     | elapsed:    0.1s
[Parallel(n_jobs=8)]: Done 632 tasks     | elapsed:    0.2s
[Parallel(n_jobs=8)]: Done 997 tasks     | elapsed:    0.3s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.3s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks     | elapsed:    0.2s
[Parallel(n_jobs=8)]: Done 632 tasks     | elapsed:    0.5s
[Parallel(n_jobs=8)]: Done 997 tasks     | elapsed:    0.8s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.8s finished
[Parallel(n_jobs=-1)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=-1)]: Done 25 tasks      | elapsed:    0.0s

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[Parallel(n_jobs=-1)]: Done 146 tasks | elapsed: 0.2s
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[Parallel(n_jobs=-1)]: Done 349 tasks | elapsed: 0.5s

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[Parallel(n_jobs=-1)]: Done 632 tasks | elapsed: 1.1s

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[Parallel(n_jobs=-1)]: Done 997 tasks      | elapsed:    1.8s
[Parallel(n_jobs=-1)]: Done 1024 out of 1024 | elapsed:    1.9s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks     | elapsed:    0.1s
[Parallel(n_jobs=8)]: Done 997 tasks     | elapsed:    0.3s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.3s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks     | elapsed:    0.2s
[Parallel(n_jobs=8)]: Done 632 tasks     | elapsed:    0.4s
[Parallel(n_jobs=8)]: Done 997 tasks     | elapsed:    0.8s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.8s finished
[Parallel(n_jobs=-1)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=-1)]: Done 25 tasks      | elapsed:    0.0s

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[Parallel(n_jobs=-1)]: Done 146 tasks | elapsed: 0.3s
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[Parallel(n_jobs=-1)]: Done 349 tasks | elapsed: 0.7s
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[Parallel(n_jobs=-1)]: Done 632 tasks      | elapsed:    1.2s
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[Parallel(n_jobs=-1)]: Done 997 tasks | elapsed: 2.0s
[Parallel(n_jobs=-1)]: Done 1024 out of 1024 | elapsed: 2.1s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks | elapsed: 0.0s
[Parallel(n_jobs=8)]: Done 146 tasks | elapsed: 0.0s
[Parallel(n_jobs=8)]: Done 349 tasks | elapsed: 0.0s
[Parallel(n_jobs=8)]: Done 632 tasks | elapsed: 0.2s
[Parallel(n_jobs=8)]: Done 997 tasks | elapsed: 0.3s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed: 0.3s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks | elapsed: 0.0s
[Parallel(n_jobs=8)]: Done 146 tasks | elapsed: 0.0s
[Parallel(n_jobs=8)]: Done 349 tasks | elapsed: 0.2s
[Parallel(n_jobs=8)]: Done 632 tasks | elapsed: 0.5s
[Parallel(n_jobs=8)]: Done 997 tasks | elapsed: 0.8s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed: 0.8s finished
[Parallel(n_jobs=1)]: Using backend SequentialBackend with 1 concurrent workers.

Trial 3

Fitting 5 folds for each of 6 candidates, totalling 30 fits
[CV] max_features=1 ...


```

[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.
[Parallel(n_jobs=-1)]: Done 34 tasks      | elapsed:    0.0s
[Parallel(n_jobs=-1)]: Done 1024 out of 1024 | elapsed:    1.2s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks     | elapsed:    0.1s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.1s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks     | elapsed:    0.1s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.1s finished

[CV] ... max_features=1, total=    2.1s
[CV] max_features=1 ...

[Parallel(n_jobs=1)]: Done 1 out of 1 | elapsed:    2.0s remaining:    0.0s
[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.
[Parallel(n_jobs=-1)]: Done 34 tasks      | elapsed:    0.0s
[Parallel(n_jobs=-1)]: Done 1024 out of 1024 | elapsed:    1.1s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks     | elapsed:    0.1s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.1s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks     | elapsed:    0.1s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.1s finished

[CV] ... max_features=1, total=    1.9s
[CV] max_features=1 ...

[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.
[Parallel(n_jobs=-1)]: Done 34 tasks      | elapsed:    0.0s
[Parallel(n_jobs=-1)]: Done 1024 out of 1024 | elapsed:    1.2s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks     | elapsed:    0.0s

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[Parallel(n_jobs=8)]: Done 632 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks      | elapsed:    0.1s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.1s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks       | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks      | elapsed:    0.1s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.1s finished

[CV] ... max_features=1, total=    2.0s
[CV] max_features=1 ...

[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.
[Parallel(n_jobs=-1)]: Done 34 tasks      | elapsed:    0.0s
[Parallel(n_jobs=-1)]: Done 1024 out of 1024 | elapsed:    1.1s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks       | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks      | elapsed:    0.1s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.1s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks       | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks      | elapsed:    0.1s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.1s finished

[CV] ... max_features=1, total=    2.1s
[CV] max_features=1 ...

[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.
[Parallel(n_jobs=-1)]: Done 34 tasks      | elapsed:    0.0s
[Parallel(n_jobs=-1)]: Done 1024 out of 1024 | elapsed:    0.9s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks       | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.0s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks       | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks      | elapsed:    0.0s

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[Parallel(n_jobs=8)]: Done 997 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.0s finished

[CV] ... max_features=1, total=    1.8s
[CV] max_features=2 ...

[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.
[Parallel(n_jobs=-1)]: Done   34 tasks      | elapsed:    0.0s
[Parallel(n_jobs=-1)]: Done 1024 out of 1024 | elapsed:    1.4s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done   25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done  146 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done  349 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done  632 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done  997 tasks      | elapsed:    0.1s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.1s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done   25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done  146 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done  349 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done  632 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done  997 tasks      | elapsed:    0.1s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.1s finished

[CV] ... max_features=2, total=    2.2s
[CV] max_features=2 ...

[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.
[Parallel(n_jobs=-1)]: Done   34 tasks      | elapsed:    0.0s
[Parallel(n_jobs=-1)]: Done 1024 out of 1024 | elapsed:    1.5s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done   25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done  146 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done  349 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done  632 tasks      | elapsed:    0.1s
[Parallel(n_jobs=8)]: Done  997 tasks      | elapsed:    0.2s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.2s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done   25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done  146 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done  349 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done  632 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done  997 tasks      | elapsed:    0.1s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.1s finished

[CV] ... max_features=2, total=    2.5s
[CV] max_features=2 ...

[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.
[Parallel(n_jobs=-1)]: Done   34 tasks      | elapsed:    0.0s
[Parallel(n_jobs=-1)]: Done 1024 out of 1024 | elapsed:    1.1s finished

```

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[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks     | elapsed:    0.1s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.1s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks     | elapsed:    0.1s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.1s finished

[CV] ... max_features=2, total=    1.9s
[CV] max_features=2 ...

[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.
[Parallel(n_jobs=-1)]: Done 34 tasks      | elapsed:    0.0s
[Parallel(n_jobs=-1)]: Done 1024 out of 1024 | elapsed:    1.0s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks     | elapsed:    0.1s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.1s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks     | elapsed:    0.1s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.1s finished

[CV] ... max_features=2, total=    1.9s
[CV] max_features=2 ...

[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.
[Parallel(n_jobs=-1)]: Done 34 tasks      | elapsed:    0.0s
[Parallel(n_jobs=-1)]: Done 1024 out of 1024 | elapsed:    1.1s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks     | elapsed:    0.1s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.1s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.

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[Parallel(n_jobs=8)]: Done 25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks     | elapsed:    0.1s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.1s finished

[CV] ... max_features=2, total=    1.9s
[CV] max_features=4 ...

[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.
[Parallel(n_jobs=-1)]: Done 34 tasks     | elapsed:    0.0s
[Parallel(n_jobs=-1)]: Done 1024 out of 1024 | elapsed:    1.1s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks     | elapsed:    0.1s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.1s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks     | elapsed:    0.1s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.1s finished

[CV] ... max_features=4, total=    2.0s
[CV] max_features=4 ...

[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.
[Parallel(n_jobs=-1)]: Done 34 tasks     | elapsed:    0.0s
[Parallel(n_jobs=-1)]: Done 1024 out of 1024 | elapsed:    1.1s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks     | elapsed:    0.1s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.1s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks     | elapsed:    0.1s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.1s finished

[CV] ... max_features=4, total=    1.9s

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[CV] max_features=4 ...

[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.
[Parallel(n_jobs=-1)]: Done 34 tasks      | elapsed:    0.0s
[Parallel(n_jobs=-1)]: Done 1024 out of 1024 | elapsed:    1.1s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks     | elapsed:    0.1s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.1s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks     | elapsed:    0.1s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.1s finished

[CV] ... max_features=4, total=    1.9s
[CV] max_features=4 ...

[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.
[Parallel(n_jobs=-1)]: Done 34 tasks      | elapsed:    0.0s
[Parallel(n_jobs=-1)]: Done 1024 out of 1024 | elapsed:    1.1s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks     | elapsed:    0.1s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.1s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks     | elapsed:    0.1s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.1s finished

[CV] ... max_features=4, total=    2.0s
[CV] max_features=4 ...

[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.
[Parallel(n_jobs=-1)]: Done 34 tasks      | elapsed:    0.0s
[Parallel(n_jobs=-1)]: Done 1024 out of 1024 | elapsed:    1.0s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks     | elapsed:    0.0s

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[Parallel(n_jobs=8)]: Done 349 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.1s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks       | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks      | elapsed:    0.1s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.1s finished

[CV] ... max_features=4, total=    1.9s
[CV] max_features=6 ...

[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.
[Parallel(n_jobs=-1)]: Done 34 tasks      | elapsed:    0.0s
[Parallel(n_jobs=-1)]: Done 1024 out of 1024 | elapsed:    1.0s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks       | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks      | elapsed:    0.1s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.1s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks       | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks      | elapsed:    0.1s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.1s finished

[CV] ... max_features=6, total=    1.8s
[CV] max_features=6 ...

[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.
[Parallel(n_jobs=-1)]: Done 34 tasks      | elapsed:    0.0s
[Parallel(n_jobs=-1)]: Done 1024 out of 1024 | elapsed:    1.0s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks       | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.1s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks       | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks      | elapsed:    0.0s

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[Parallel(n_jobs=8)]: Done 632 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.0s finished

[CV] ... max_features=6, total=    1.8s
[CV] max_features=6 ...

[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.
[Parallel(n_jobs=-1)]: Done  34 tasks      | elapsed:    0.0s
[Parallel(n_jobs=-1)]: Done 1024 out of 1024 | elapsed:    1.0s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done  25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.0s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done  25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.1s finished

[CV] ... max_features=6, total=    1.8s
[CV] max_features=6 ...

[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.
[Parallel(n_jobs=-1)]: Done  34 tasks      | elapsed:    0.0s
[Parallel(n_jobs=-1)]: Done 1024 out of 1024 | elapsed:    1.0s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done  25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.1s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done  25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.0s finished

[CV] ... max_features=6, total=    1.9s
[CV] max_features=6 ...

[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.
[Parallel(n_jobs=-1)]: Done  34 tasks      | elapsed:    0.0s

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[Parallel(n_jobs=-1)]: Done 1024 out of 1024 | elapsed:    1.0s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.1s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.1s finished

[CV] ... max_features=6, total=    1.8s
[CV] max_features=8 ...

[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.
[Parallel(n_jobs=-1)]: Done 34 tasks      | elapsed:    0.0s
[Parallel(n_jobs=-1)]: Done 1024 out of 1024 | elapsed:    1.1s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks     | elapsed:    0.1s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.1s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.1s finished

[CV] ... max_features=8, total=    1.9s
[CV] max_features=8 ...

[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.
[Parallel(n_jobs=-1)]: Done 34 tasks      | elapsed:    0.0s
[Parallel(n_jobs=-1)]: Done 1024 out of 1024 | elapsed:    1.0s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.1s finished

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[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.1s finished

[CV] ... max_features=8, total=    1.9s
[CV] max_features=8 ...

[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.
[Parallel(n_jobs=-1)]: Done 34 tasks     | elapsed:    0.0s
[Parallel(n_jobs=-1)]: Done 1024 out of 1024 | elapsed:    1.1s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks     | elapsed:    0.1s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.1s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks     | elapsed:    0.1s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.1s finished

[CV] ... max_features=8, total=    2.0s
[CV] max_features=8 ...

[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.
[Parallel(n_jobs=-1)]: Done 34 tasks     | elapsed:    0.0s
[Parallel(n_jobs=-1)]: Done 1024 out of 1024 | elapsed:    1.2s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks     | elapsed:    0.1s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.1s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks     | elapsed:    0.1s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.1s finished

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[CV] ... max_features=8, total= 2.0s
[CV] max_features=8 ...

[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.
[Parallel(n_jobs=-1)]: Done 34 tasks | elapsed: 0.0s
[Parallel(n_jobs=-1)]: Done 1024 out of 1024 | elapsed: 1.1s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks | elapsed: 0.0s
[Parallel(n_jobs=8)]: Done 146 tasks | elapsed: 0.0s
[Parallel(n_jobs=8)]: Done 349 tasks | elapsed: 0.0s
[Parallel(n_jobs=8)]: Done 632 tasks | elapsed: 0.0s
[Parallel(n_jobs=8)]: Done 997 tasks | elapsed: 0.1s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed: 0.1s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks | elapsed: 0.0s
[Parallel(n_jobs=8)]: Done 146 tasks | elapsed: 0.0s
[Parallel(n_jobs=8)]: Done 349 tasks | elapsed: 0.0s
[Parallel(n_jobs=8)]: Done 632 tasks | elapsed: 0.0s
[Parallel(n_jobs=8)]: Done 997 tasks | elapsed: 0.1s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed: 0.1s finished

[CV] ... max_features=8, total= 2.0s
[CV] max_features=12 ...

[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.
[Parallel(n_jobs=-1)]: Done 34 tasks | elapsed: 0.0s
[Parallel(n_jobs=-1)]: Done 1024 out of 1024 | elapsed: 1.2s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks | elapsed: 0.0s
[Parallel(n_jobs=8)]: Done 146 tasks | elapsed: 0.0s
[Parallel(n_jobs=8)]: Done 349 tasks | elapsed: 0.0s
[Parallel(n_jobs=8)]: Done 632 tasks | elapsed: 0.0s
[Parallel(n_jobs=8)]: Done 997 tasks | elapsed: 0.1s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed: 0.1s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks | elapsed: 0.0s
[Parallel(n_jobs=8)]: Done 146 tasks | elapsed: 0.0s
[Parallel(n_jobs=8)]: Done 349 tasks | elapsed: 0.0s
[Parallel(n_jobs=8)]: Done 632 tasks | elapsed: 0.0s
[Parallel(n_jobs=8)]: Done 997 tasks | elapsed: 0.1s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed: 0.1s finished

[CV] ... max_features=12, total= 2.0s
[CV] max_features=12 ...

[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.
[Parallel(n_jobs=-1)]: Done 34 tasks | elapsed: 0.0s
[Parallel(n_jobs=-1)]: Done 1024 out of 1024 | elapsed: 1.2s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks | elapsed: 0.0s

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[Parallel(n_jobs=8)]: Done 146 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks      | elapsed:    0.1s
[Parallel(n_jobs=8)]: Done 997 tasks      | elapsed:    0.1s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.1s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks       | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks      | elapsed:    0.1s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.1s finished

[CV] ... max_features=12, total=    2.1s
[CV] max_features=12 ...

[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.
[Parallel(n_jobs=-1)]: Done 34 tasks      | elapsed:    0.0s
[Parallel(n_jobs=-1)]: Done 1024 out of 1024 | elapsed:    1.2s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks       | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.1s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks       | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.0s finished

[CV] ... max_features=12, total=    2.0s
[CV] max_features=12 ...

[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.
[Parallel(n_jobs=-1)]: Done 34 tasks      | elapsed:    0.0s
[Parallel(n_jobs=-1)]: Done 1024 out of 1024 | elapsed:    1.1s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks       | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks      | elapsed:    0.1s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.1s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks       | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks      | elapsed:    0.0s

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[Parallel(n_jobs=8)]: Done 349 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.0s finished

[CV] ... max_features=12, total=    2.0s
[CV] max_features=12 ...

[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.
[Parallel(n_jobs=-1)]: Done  34 tasks      | elapsed:    0.0s
[Parallel(n_jobs=-1)]: Done 1024 out of 1024 | elapsed:    1.1s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done  25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks      | elapsed:    0.1s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.1s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done  25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.0s finished

[CV] ... max_features=12, total=    1.9s

[Parallel(n_jobs=1)]: Done  30 out of  30 | elapsed:   58.9s finished
[Parallel(n_jobs=-1)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=-1)]: Done  25 tasks      | elapsed:    0.0s

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[Parallel(n_jobs=-1)]: Done 146 tasks | elapsed: 0.2s
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[Parallel(n_jobs=-1)]: Done 349 tasks | elapsed: 0.6s

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[Parallel(n_jobs=-1)]: Done 632 tasks | elapsed: 1.1s
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[Parallel(n_jobs=-1)]: Done 997 tasks      | elapsed:    1.8s
[Parallel(n_jobs=-1)]: Done 1024 out of 1024 | elapsed:    1.9s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks     | elapsed:    0.1s
[Parallel(n_jobs=8)]: Done 997 tasks     | elapsed:    0.3s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.3s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks     | elapsed:    0.2s
[Parallel(n_jobs=8)]: Done 632 tasks     | elapsed:    0.4s
[Parallel(n_jobs=8)]: Done 997 tasks     | elapsed:    0.7s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.7s finished
[Parallel(n_jobs=-1)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=-1)]: Done 25 tasks      | elapsed:    0.0s

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[Parallel(n_jobs=-1)]: Done 146 tasks      | elapsed:    0.2s

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[Parallel(n_jobs=-1)]: Done 349 tasks | elapsed: 0.5s

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[Parallel(n_jobs=-1)]: Done 632 tasks | elapsed: 1.1s

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[Parallel(n_jobs=-1)]: Done 997 tasks      | elapsed:    1.8s
[Parallel(n_jobs=-1)]: Done 1024 out of 1024 | elapsed:    1.8s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks     | elapsed:    0.0s

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[Parallel(n_jobs=8)]: Done 349 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks     | elapsed:    0.1s
[Parallel(n_jobs=8)]: Done 997 tasks     | elapsed:    0.3s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.3s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks    | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks    | elapsed:    0.2s
[Parallel(n_jobs=8)]: Done 632 tasks    | elapsed:    0.4s
[Parallel(n_jobs=8)]: Done 997 tasks    | elapsed:    0.7s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.7s finished
[Parallel(n_jobs=-1)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=-1)]: Done 25 tasks     | elapsed:    0.0s

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[Parallel(n_jobs=-1)]: Done 146 tasks | elapsed: 0.2s

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[Parallel(n_jobs=-1)]: Done 349 tasks | elapsed: 0.5s

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[Parallel(n_jobs=-1)]: Done 632 tasks | elapsed: 1.0s

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[Parallel(n_jobs=-1)]: Done 997 tasks | elapsed: 1.8s

[Parallel(n_jobs=-1)]: Done 1024 out of 1024 | elapsed: 1.9s finished

[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.

[Parallel(n_jobs=8)]: Done 25 tasks | elapsed: 0.0s

[Parallel(n_jobs=8)]: Done 146 tasks | elapsed: 0.0s

[Parallel(n_jobs=8)]: Done 349 tasks | elapsed: 0.0s

[Parallel(n_jobs=8)]: Done 632 tasks | elapsed: 0.1s

[Parallel(n_jobs=8)]: Done 997 tasks | elapsed: 0.2s

[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed: 0.3s finished

[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.

[Parallel(n_jobs=8)]: Done 25 tasks | elapsed: 0.0s

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[Parallel(n_jobs=8)]: Done 146 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks      | elapsed:    0.2s
[Parallel(n_jobs=8)]: Done 632 tasks      | elapsed:    0.4s
[Parallel(n_jobs=8)]: Done 997 tasks      | elapsed:    0.7s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.7s finished
[Parallel(n_jobs=1)]: Using backend SequentialBackend with 1 concurrent workers.

```

Trial 4

Fitting 5 folds for each of 6 candidates, totalling 30 fits

```
[CV] max_features=1 ...
```

```

[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.
[Parallel(n_jobs=-1)]: Done 34 tasks      | elapsed:    0.0s
[Parallel(n_jobs=-1)]: Done 1024 out of 1024 | elapsed:    1.0s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks     | elapsed:    0.1s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.1s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks     | elapsed:    0.1s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.1s finished

```

```
[CV] ... max_features=1, total= 1.8s
```

```
[CV] max_features=1 ...
```

```

[Parallel(n_jobs=1)]: Done 1 out of 1 | elapsed:    1.7s remaining:    0.0s
[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.
[Parallel(n_jobs=-1)]: Done 34 tasks      | elapsed:    0.0s
[Parallel(n_jobs=-1)]: Done 1024 out of 1024 | elapsed:    1.0s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.1s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks     | elapsed:    0.1s

```



```

[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.1s finished
[CV] ... max_features=1, total=    1.8s
[CV] max_features=1 ...

[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.
[Parallel(n_jobs=-1)]: Done  34 tasks      | elapsed:    0.0s
[Parallel(n_jobs=-1)]: Done 1024 out of 1024 | elapsed:    1.0s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done  25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks      | elapsed:    0.1s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.1s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done  25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks      | elapsed:    0.1s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.1s finished

[CV] ... max_features=1, total=    1.8s
[CV] max_features=1 ...

[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.
[Parallel(n_jobs=-1)]: Done  34 tasks      | elapsed:    0.0s
[Parallel(n_jobs=-1)]: Done 1024 out of 1024 | elapsed:    1.1s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done  25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks      | elapsed:    0.1s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.1s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done  25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks      | elapsed:    0.1s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.1s finished

[CV] ... max_features=1, total=    1.9s
[CV] max_features=1 ...

[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.
[Parallel(n_jobs=-1)]: Done  34 tasks      | elapsed:    0.0s
[Parallel(n_jobs=-1)]: Done 1024 out of 1024 | elapsed:    1.0s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.

```

```

[Parallel(n_jobs=8)]: Done 25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks     | elapsed:    0.1s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.1s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks     | elapsed:    0.1s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.1s finished

[CV] ... max_features=1, total=    1.9s
[CV] max_features=2 ...

[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.
[Parallel(n_jobs=-1)]: Done 34 tasks      | elapsed:    0.0s
[Parallel(n_jobs=-1)]: Done 1024 out of 1024 | elapsed:    1.1s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks     | elapsed:    0.1s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.1s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks     | elapsed:    0.1s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.1s finished

[CV] ... max_features=2, total=    2.0s
[CV] max_features=2 ...

[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.
[Parallel(n_jobs=-1)]: Done 34 tasks      | elapsed:    0.0s
[Parallel(n_jobs=-1)]: Done 1024 out of 1024 | elapsed:    1.1s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks     | elapsed:    0.1s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.1s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks      | elapsed:    0.0s

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[Parallel(n_jobs=8)]: Done 146 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks      | elapsed:    0.1s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.1s finished

[CV] ... max_features=2, total=    1.9s
[CV] max_features=2 ...

[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.
[Parallel(n_jobs=-1)]: Done 34 tasks      | elapsed:    0.0s
[Parallel(n_jobs=-1)]: Done 1024 out of 1024 | elapsed:    1.1s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks      | elapsed:    0.1s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.1s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks      | elapsed:    0.1s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.1s finished

[CV] ... max_features=2, total=    1.9s
[CV] max_features=2 ...

[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.
[Parallel(n_jobs=-1)]: Done 34 tasks      | elapsed:    0.0s
[Parallel(n_jobs=-1)]: Done 1024 out of 1024 | elapsed:    1.1s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks      | elapsed:    0.1s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.1s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks      | elapsed:    0.1s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.1s finished

[CV] ... max_features=2, total=    1.9s
[CV] max_features=2 ...

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[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.
[Parallel(n_jobs=-1)]: Done 34 tasks      | elapsed:    0.0s
[Parallel(n_jobs=-1)]: Done 1024 out of 1024 | elapsed:    1.1s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks     | elapsed:    0.1s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.1s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks     | elapsed:    0.1s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.1s finished

[CV] ... max_features=2, total=    1.9s
[CV] max_features=4 ...

[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.
[Parallel(n_jobs=-1)]: Done 34 tasks      | elapsed:    0.0s
[Parallel(n_jobs=-1)]: Done 930 tasks     | elapsed:    1.1s
[Parallel(n_jobs=-1)]: Done 1024 out of 1024 | elapsed:    1.3s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks     | elapsed:    0.1s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.1s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks     | elapsed:    0.1s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.1s finished

[CV] ... max_features=4, total=    2.2s
[CV] max_features=4 ...

[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.
[Parallel(n_jobs=-1)]: Done 34 tasks      | elapsed:    0.0s
[Parallel(n_jobs=-1)]: Done 1024 out of 1024 | elapsed:    1.1s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks     | elapsed:    0.0s

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[Parallel(n_jobs=8)]: Done 632 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks      | elapsed:    0.1s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.1s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks       | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks      | elapsed:    0.1s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.1s finished

[CV] ... max_features=4, total=    2.0s
[CV] max_features=4 ...

[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.
[Parallel(n_jobs=-1)]: Done 34 tasks      | elapsed:    0.0s
[Parallel(n_jobs=-1)]: Done 1024 out of 1024 | elapsed:    1.1s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks       | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks      | elapsed:    0.1s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.1s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks       | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks      | elapsed:    0.1s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.1s finished

[CV] ... max_features=4, total=    1.9s
[CV] max_features=4 ...

[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.
[Parallel(n_jobs=-1)]: Done 34 tasks      | elapsed:    0.0s
[Parallel(n_jobs=-1)]: Done 1024 out of 1024 | elapsed:    1.1s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks       | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks      | elapsed:    0.1s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.1s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks       | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks      | elapsed:    0.0s

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[Parallel(n_jobs=8)]: Done 997 tasks      | elapsed:    0.1s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.1s finished

[CV] ... max_features=4, total=    2.0s
[CV] max_features=4 ...

[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.
[Parallel(n_jobs=-1)]: Done   34 tasks      | elapsed:    0.0s
[Parallel(n_jobs=-1)]: Done 1024 out of 1024 | elapsed:    1.1s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done   25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done  146 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done  349 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done  632 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done  997 tasks      | elapsed:    0.1s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.1s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done   25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done  146 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done  349 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done  632 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done  997 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.1s finished

[CV] ... max_features=4, total=    1.9s
[CV] max_features=6 ...

[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.
[Parallel(n_jobs=-1)]: Done   34 tasks      | elapsed:    0.0s
[Parallel(n_jobs=-1)]: Done 1024 out of 1024 | elapsed:    1.4s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done   25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done  146 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done  349 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done  632 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done  997 tasks      | elapsed:    0.1s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.1s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done   25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done  146 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done  349 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done  632 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done  997 tasks      | elapsed:    0.1s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.1s finished

[CV] ... max_features=6, total=    2.2s
[CV] max_features=6 ...

[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.
[Parallel(n_jobs=-1)]: Done   34 tasks      | elapsed:    0.0s
[Parallel(n_jobs=-1)]: Done 1024 out of 1024 | elapsed:    1.0s finished

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[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.1s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.1s finished

[CV] ... max_features=6, total=    1.8s
[CV] max_features=6 ...

[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.
[Parallel(n_jobs=-1)]: Done 34 tasks      | elapsed:    0.0s
[Parallel(n_jobs=-1)]: Done 1024 out of 1024 | elapsed:    1.0s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.0s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.0s finished

[CV] ... max_features=6, total=    1.8s
[CV] max_features=6 ...

[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.
[Parallel(n_jobs=-1)]: Done 34 tasks      | elapsed:    0.0s
[Parallel(n_jobs=-1)]: Done 1024 out of 1024 | elapsed:    1.0s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.0s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.

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[Parallel(n_jobs=8)]: Done 25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.1s finished

[CV] ... max_features=6, total=    1.8s
[CV] max_features=6 ...

[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.
[Parallel(n_jobs=-1)]: Done 34 tasks     | elapsed:    0.0s
[Parallel(n_jobs=-1)]: Done 1024 out of 1024 | elapsed:    1.0s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.0s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.0s finished

[CV] ... max_features=6, total=    1.8s
[CV] max_features=8 ...

[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.
[Parallel(n_jobs=-1)]: Done 34 tasks     | elapsed:    0.0s
[Parallel(n_jobs=-1)]: Done 1024 out of 1024 | elapsed:    1.0s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks     | elapsed:    0.1s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.1s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.0s finished

[CV] ... max_features=8, total=    1.9s

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[CV] max_features=8 ...

[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.
[Parallel(n_jobs=-1)]: Done 34 tasks      | elapsed:    0.0s
[Parallel(n_jobs=-1)]: Done 1024 out of 1024 | elapsed:    1.0s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks     | elapsed:    0.1s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.1s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.0s finished

[CV] ... max_features=8, total=    1.8s
[CV] max_features=8 ...

[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.
[Parallel(n_jobs=-1)]: Done 34 tasks      | elapsed:    0.0s
[Parallel(n_jobs=-1)]: Done 1024 out of 1024 | elapsed:    1.0s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.0s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks     | elapsed:    0.1s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.1s finished

[CV] ... max_features=8, total=    1.8s
[CV] max_features=8 ...

[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.
[Parallel(n_jobs=-1)]: Done 34 tasks      | elapsed:    0.0s
[Parallel(n_jobs=-1)]: Done 1024 out of 1024 | elapsed:    1.0s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks     | elapsed:    0.0s

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[Parallel(n_jobs=8)]: Done 349 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks      | elapsed:    0.1s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.1s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks       | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks      | elapsed:    0.1s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.1s finished

[CV] ... max_features=8, total=    1.9s
[CV] max_features=8 ...

[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.
[Parallel(n_jobs=-1)]: Done 34 tasks      | elapsed:    0.0s
[Parallel(n_jobs=-1)]: Done 1024 out of 1024 | elapsed:    1.2s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks       | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.0s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks       | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks      | elapsed:    0.1s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.1s finished

[CV] ... max_features=8, total=    2.0s
[CV] max_features=12 ...

[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.
[Parallel(n_jobs=-1)]: Done 34 tasks      | elapsed:    0.0s
[Parallel(n_jobs=-1)]: Done 1024 out of 1024 | elapsed:    1.1s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks       | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.0s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks       | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks      | elapsed:    0.0s

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[Parallel(n_jobs=8)]: Done 632 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks      | elapsed:    0.1s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.1s finished

[CV] ... max_features=12, total=    2.0s
[CV] max_features=12 ...

[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.
[Parallel(n_jobs=-1)]: Done  34 tasks      | elapsed:    0.0s
[Parallel(n_jobs=-1)]: Done 1024 out of 1024 | elapsed:    1.1s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done  25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks      | elapsed:    0.1s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.1s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done  25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks      | elapsed:    0.1s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.1s finished

[CV] ... max_features=12, total=    2.0s
[CV] max_features=12 ...

[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.
[Parallel(n_jobs=-1)]: Done  34 tasks      | elapsed:    0.0s
[Parallel(n_jobs=-1)]: Done 1024 out of 1024 | elapsed:    1.2s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done  25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks      | elapsed:    0.1s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.1s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done  25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks      | elapsed:    0.1s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.1s finished

[CV] ... max_features=12, total=    2.0s
[CV] max_features=12 ...

[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.
[Parallel(n_jobs=-1)]: Done  34 tasks      | elapsed:    0.0s

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[Parallel(n_jobs=-1)]: Done 1024 out of 1024 | elapsed:    1.4s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks     | elapsed:    0.1s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.1s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.0s finished

[CV] ... max_features=12, total=    2.2s
[CV] max_features=12 ...

[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.
[Parallel(n_jobs=-1)]: Done 34 tasks      | elapsed:    0.0s
[Parallel(n_jobs=-1)]: Done 1024 out of 1024 | elapsed:    1.4s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks     | elapsed:    0.1s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.1s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks     | elapsed:    0.1s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.1s finished
[Parallel(n_jobs=1)]: Done 30 out of 30 | elapsed:   58.2s finished

[CV] ... max_features=12, total=    2.3s

[Parallel(n_jobs=-1)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=-1)]: Done 25 tasks      | elapsed:    0.0s

building tree 1 of 1024
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building tree 4 of 1024
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building tree 8 of 1024
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[Parallel(n_jobs=-1)]: Done 146 tasks | elapsed: 0.2s

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[Parallel(n_jobs=-1)]: Done 349 tasks | elapsed: 0.7s

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[Parallel(n_jobs=-1)]: Done 632 tasks | elapsed: 1.4s

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[Parallel(n_jobs=-1)]: Done 997 tasks | elapsed: 2.3s
[Parallel(n_jobs=-1)]: Done 1024 out of 1024 | elapsed: 2.3s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks | elapsed: 0.0s
[Parallel(n_jobs=8)]: Done 146 tasks | elapsed: 0.0s
[Parallel(n_jobs=8)]: Done 349 tasks | elapsed: 0.1s
[Parallel(n_jobs=8)]: Done 632 tasks | elapsed: 0.2s
[Parallel(n_jobs=8)]: Done 997 tasks | elapsed: 0.3s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed: 0.3s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks | elapsed: 0.0s
[Parallel(n_jobs=8)]: Done 146 tasks | elapsed: 0.1s
[Parallel(n_jobs=8)]: Done 349 tasks | elapsed: 0.3s
[Parallel(n_jobs=8)]: Done 632 tasks | elapsed: 0.6s
[Parallel(n_jobs=8)]: Done 997 tasks | elapsed: 0.9s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed: 0.9s finished
[Parallel(n_jobs=-1)]: Using backend ThreadingBackend with 8 concurrent workers.

[Parallel(n_jobs=-1)]: Done 25 tasks | elapsed: 0.0s

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[Parallel(n_jobs=-1)]: Done 146 tasks | elapsed: 0.2s

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[Parallel(n_jobs=-1)]: Done 349 tasks      | elapsed:    0.6s
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[Parallel(n_jobs=-1)]: Done 632 tasks | elapsed: 1.3s

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[Parallel(n_jobs=-1)]: Done 997 tasks      | elapsed:    2.1s
[Parallel(n_jobs=-1)]: Done 1024 out of 1024 | elapsed:    2.2s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks     | elapsed:    0.2s
[Parallel(n_jobs=8)]: Done 997 tasks     | elapsed:    0.4s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.4s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.

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[Parallel(n_jobs=8)]: Done 25 tasks      | elapsed: 0.0s
[Parallel(n_jobs=8)]: Done 146 tasks     | elapsed: 0.1s
[Parallel(n_jobs=8)]: Done 349 tasks     | elapsed: 0.3s
[Parallel(n_jobs=8)]: Done 632 tasks     | elapsed: 0.5s
[Parallel(n_jobs=8)]: Done 997 tasks     | elapsed: 0.9s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed: 0.9s finished
[Parallel(n_jobs=-1)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=-1)]: Done 25 tasks      | elapsed: 0.0s
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[Parallel(n_jobs=-1)]: Done 146 tasks | elapsed: 0.2s

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[Parallel(n_jobs=-1)]: Done 349 tasks | elapsed: 0.6s

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[Parallel(n_jobs=-1)]: Done 632 tasks | elapsed: 1.3s

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[Parallel(n_jobs=-1)]: Done 997 tasks      | elapsed:    2.2s
[Parallel(n_jobs=-1)]: Done 1024 out of 1024 | elapsed:    2.3s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks     | elapsed:    0.2s
[Parallel(n_jobs=8)]: Done 997 tasks     | elapsed:    0.3s

```

```

[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.3s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks     | elapsed:    0.2s
[Parallel(n_jobs=8)]: Done 632 tasks     | elapsed:    0.4s
[Parallel(n_jobs=8)]: Done 997 tasks     | elapsed:    0.8s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.8s finished
[Parallel(n_jobs=1)]: Using backend SequentialBackend with 1 concurrent workers.

```

Trial 5

Fitting 5 folds for each of 6 candidates, totalling 30 fits

```
[CV] max_features=1 ...
```

```

[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.
[Parallel(n_jobs=-1)]: Done 34 tasks      | elapsed:    0.0s
[Parallel(n_jobs=-1)]: Done 1024 out of 1024 | elapsed:    1.0s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.0s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks     | elapsed:    0.1s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.1s finished
[Parallel(n_jobs=1)]: Done 1 out of 1 | elapsed:    1.7s remaining:    0.0s

```

```
[CV] ... max_features=1, total=    1.8s
```

```
[CV] max_features=1 ...
```

```

[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.
[Parallel(n_jobs=-1)]: Done 34 tasks      | elapsed:    0.0s
[Parallel(n_jobs=-1)]: Done 1024 out of 1024 | elapsed:    1.0s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.0s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks     | elapsed:    0.0s

```

```

[Parallel(n_jobs=8)]: Done 349 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.0s finished

[CV] ... max_features=1, total=    1.9s
[CV] max_features=1 ...

[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.
[Parallel(n_jobs=-1)]: Done  34 tasks      | elapsed:    0.0s
[Parallel(n_jobs=-1)]: Done 1024 out of 1024 | elapsed:    1.0s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done  25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.1s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done  25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.1s finished

[CV] ... max_features=1, total=    1.9s
[CV] max_features=1 ...

[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.
[Parallel(n_jobs=-1)]: Done  34 tasks      | elapsed:    0.0s
[Parallel(n_jobs=-1)]: Done 1024 out of 1024 | elapsed:    1.1s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done  25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.1s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done  25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.0s finished

[CV] ... max_features=1, total=    2.0s
[CV] max_features=1 ...

[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.

```



```

[Parallel(n_jobs=-1)]: Done 34 tasks      | elapsed:    0.0s
[Parallel(n_jobs=-1)]: Done 1024 out of 1024 | elapsed:    1.0s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks     | elapsed:    0.1s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.1s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks     | elapsed:    0.1s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.1s finished

[CV] ... max_features=1, total=    1.9s
[CV] max_features=2 ...

[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.
[Parallel(n_jobs=-1)]: Done 34 tasks      | elapsed:    0.0s
[Parallel(n_jobs=-1)]: Done 1024 out of 1024 | elapsed:    1.1s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks     | elapsed:    0.1s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.1s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks     | elapsed:    0.1s
[Parallel(n_jobs=8)]: Done 632 tasks     | elapsed:    0.1s
[Parallel(n_jobs=8)]: Done 997 tasks     | elapsed:    0.2s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.2s finished

[CV] ... max_features=2, total=    2.2s
[CV] max_features=2 ...

[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.
[Parallel(n_jobs=-1)]: Done 34 tasks      | elapsed:    0.0s
[Parallel(n_jobs=-1)]: Done 1024 out of 1024 | elapsed:    0.9s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks     | elapsed:    0.0s

```

```

[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.1s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.1s finished

[CV] ... max_features=2, total=    1.7s
[CV] max_features=2 ...

[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.
[Parallel(n_jobs=-1)]: Done 34 tasks      | elapsed:    0.0s
[Parallel(n_jobs=-1)]: Done 1024 out of 1024 | elapsed:    1.2s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks     | elapsed:    0.1s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.1s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks     | elapsed:    0.1s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.1s finished

[CV] ... max_features=2, total=    2.0s
[CV] max_features=2 ...

[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.
[Parallel(n_jobs=-1)]: Done 34 tasks      | elapsed:    0.0s
[Parallel(n_jobs=-1)]: Done 1024 out of 1024 | elapsed:    1.1s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks     | elapsed:    0.1s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.1s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks     | elapsed:    0.1s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.1s finished

```

```

[CV] ... max_features=2, total= 2.0s
[CV] max_features=2 ...

[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.
[Parallel(n_jobs=-1)]: Done 34 tasks | elapsed: 0.0s
[Parallel(n_jobs=-1)]: Done 1024 out of 1024 | elapsed: 1.2s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks | elapsed: 0.0s
[Parallel(n_jobs=8)]: Done 146 tasks | elapsed: 0.0s
[Parallel(n_jobs=8)]: Done 349 tasks | elapsed: 0.0s
[Parallel(n_jobs=8)]: Done 632 tasks | elapsed: 0.0s
[Parallel(n_jobs=8)]: Done 997 tasks | elapsed: 0.1s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed: 0.1s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks | elapsed: 0.0s
[Parallel(n_jobs=8)]: Done 146 tasks | elapsed: 0.0s
[Parallel(n_jobs=8)]: Done 349 tasks | elapsed: 0.0s
[Parallel(n_jobs=8)]: Done 632 tasks | elapsed: 0.0s
[Parallel(n_jobs=8)]: Done 997 tasks | elapsed: 0.1s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed: 0.1s finished

[CV] ... max_features=2, total= 2.0s
[CV] max_features=4 ...

[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.
[Parallel(n_jobs=-1)]: Done 34 tasks | elapsed: 0.0s
[Parallel(n_jobs=-1)]: Done 1024 out of 1024 | elapsed: 1.2s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks | elapsed: 0.0s
[Parallel(n_jobs=8)]: Done 146 tasks | elapsed: 0.0s
[Parallel(n_jobs=8)]: Done 349 tasks | elapsed: 0.0s
[Parallel(n_jobs=8)]: Done 632 tasks | elapsed: 0.0s
[Parallel(n_jobs=8)]: Done 997 tasks | elapsed: 0.1s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed: 0.1s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks | elapsed: 0.0s
[Parallel(n_jobs=8)]: Done 146 tasks | elapsed: 0.0s
[Parallel(n_jobs=8)]: Done 349 tasks | elapsed: 0.0s
[Parallel(n_jobs=8)]: Done 632 tasks | elapsed: 0.0s
[Parallel(n_jobs=8)]: Done 997 tasks | elapsed: 0.1s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed: 0.1s finished

[CV] ... max_features=4, total= 2.1s
[CV] max_features=4 ...

[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.
[Parallel(n_jobs=-1)]: Done 34 tasks | elapsed: 0.0s
[Parallel(n_jobs=-1)]: Done 1024 out of 1024 | elapsed: 1.2s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks | elapsed: 0.0s

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[Parallel(n_jobs=8)]: Done 146 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks      | elapsed:    0.1s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.1s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks       | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks      | elapsed:    0.1s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.1s finished

[CV] ... max_features=4, total=    2.0s
[CV] max_features=4 ...

[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.
[Parallel(n_jobs=-1)]: Done 34 tasks      | elapsed:    0.0s
[Parallel(n_jobs=-1)]: Done 1024 out of 1024 | elapsed:    1.1s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks       | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks      | elapsed:    0.1s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.1s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks       | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks      | elapsed:    0.1s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.1s finished

[CV] ... max_features=4, total=    1.9s
[CV] max_features=4 ...

[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.
[Parallel(n_jobs=-1)]: Done 34 tasks      | elapsed:    0.0s
[Parallel(n_jobs=-1)]: Done 1024 out of 1024 | elapsed:    1.1s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks       | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks      | elapsed:    0.1s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.1s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks       | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks      | elapsed:    0.0s

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[Parallel(n_jobs=8)]: Done 349 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks      | elapsed:    0.1s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.1s finished

[CV] ... max_features=4, total=    2.0s
[CV] max_features=4 ...

[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.
[Parallel(n_jobs=-1)]: Done  34 tasks      | elapsed:    0.0s
[Parallel(n_jobs=-1)]: Done 1024 out of 1024 | elapsed:    1.2s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done  25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks      | elapsed:    0.1s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.1s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done  25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks      | elapsed:    0.1s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.1s finished

[CV] ... max_features=4, total=    2.0s
[CV] max_features=6 ...

[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.
[Parallel(n_jobs=-1)]: Done  34 tasks      | elapsed:    0.0s
[Parallel(n_jobs=-1)]: Done 1024 out of 1024 | elapsed:    1.2s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done  25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks      | elapsed:    0.1s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.1s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done  25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks      | elapsed:    0.1s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.1s finished

[CV] ... max_features=6, total=    2.0s
[CV] max_features=6 ...

[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.

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[Parallel(n_jobs=-1)]: Done 34 tasks      | elapsed:    0.0s
[Parallel(n_jobs=-1)]: Done 1024 out of 1024 | elapsed:    1.2s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks     | elapsed:    0.1s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.1s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks     | elapsed:    0.1s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.1s finished

[CV] ... max_features=6, total=    2.0s
[CV] max_features=6 ...

[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.
[Parallel(n_jobs=-1)]: Done 34 tasks      | elapsed:    0.0s
[Parallel(n_jobs=-1)]: Done 1024 out of 1024 | elapsed:    1.2s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks     | elapsed:    0.1s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.1s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks     | elapsed:    0.1s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.1s finished

[CV] ... max_features=6, total=    2.1s
[CV] max_features=6 ...

[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.
[Parallel(n_jobs=-1)]: Done 34 tasks      | elapsed:    0.0s
[Parallel(n_jobs=-1)]: Done 1024 out of 1024 | elapsed:    1.2s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks     | elapsed:    0.1s

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[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.1s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks     | elapsed:    0.1s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.1s finished

[CV] ... max_features=6, total=    2.1s
[CV] max_features=6 ...

[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.
[Parallel(n_jobs=-1)]: Done 34 tasks      | elapsed:    0.0s
[Parallel(n_jobs=-1)]: Done 1024 out of 1024 | elapsed:    1.1s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks     | elapsed:    0.1s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.1s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.1s finished

[CV] ... max_features=6, total=    2.0s
[CV] max_features=8 ...

[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.
[Parallel(n_jobs=-1)]: Done 34 tasks      | elapsed:    0.0s
[Parallel(n_jobs=-1)]: Done 1024 out of 1024 | elapsed:    1.1s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.0s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks     | elapsed:    0.1s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.1s finished

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[CV] ... max_features=8, total=    1.9s
[CV] max_features=8 ...

[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.
[Parallel(n_jobs=-1)]: Done   34 tasks      | elapsed:    0.0s
[Parallel(n_jobs=-1)]: Done 1024 out of 1024 | elapsed:    1.1s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done   25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done  146 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done  349 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done  632 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done  997 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.1s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done   25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done  146 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done  349 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done  632 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done  997 tasks      | elapsed:    0.1s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.1s finished

[CV] ... max_features=8, total=    2.0s
[CV] max_features=8 ...

[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.
[Parallel(n_jobs=-1)]: Done   34 tasks      | elapsed:    0.0s
[Parallel(n_jobs=-1)]: Done 1024 out of 1024 | elapsed:    1.1s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done   25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done  146 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done  349 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done  632 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done  997 tasks      | elapsed:    0.1s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.1s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done   25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done  146 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done  349 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done  632 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done  997 tasks      | elapsed:    0.1s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.1s finished

[CV] ... max_features=8, total=    2.0s
[CV] max_features=8 ...

[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.
[Parallel(n_jobs=-1)]: Done   34 tasks      | elapsed:    0.0s
[Parallel(n_jobs=-1)]: Done 1024 out of 1024 | elapsed:    1.2s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done   25 tasks      | elapsed:    0.0s

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[Parallel(n_jobs=8)]: Done 146 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks      | elapsed:    0.1s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.1s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks       | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks      | elapsed:    0.1s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.1s finished

[CV] ... max_features=8, total=    2.1s
[CV] max_features=8 ...

[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.
[Parallel(n_jobs=-1)]: Done 34 tasks      | elapsed:    0.0s
[Parallel(n_jobs=-1)]: Done 1024 out of 1024 | elapsed:    1.2s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks       | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks      | elapsed:    0.1s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.1s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks       | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks      | elapsed:    0.1s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.1s finished

[CV] ... max_features=8, total=    2.0s
[CV] max_features=12 ...

[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.
[Parallel(n_jobs=-1)]: Done 34 tasks      | elapsed:    0.0s
[Parallel(n_jobs=-1)]: Done 1024 out of 1024 | elapsed:    1.3s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks       | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks      | elapsed:    0.1s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.1s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks       | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks      | elapsed:    0.0s

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[Parallel(n_jobs=8)]: Done 349 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks      | elapsed:    0.1s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.1s finished

[CV] ... max_features=12, total=    2.2s
[CV] max_features=12 ...

[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.
[Parallel(n_jobs=-1)]: Done  34 tasks      | elapsed:    0.0s
[Parallel(n_jobs=-1)]: Done 1024 out of 1024 | elapsed:    1.2s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done  25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks      | elapsed:    0.1s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.1s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done  25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks      | elapsed:    0.1s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.1s finished

[CV] ... max_features=12, total=    2.1s
[CV] max_features=12 ...

[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.
[Parallel(n_jobs=-1)]: Done  34 tasks      | elapsed:    0.0s
[Parallel(n_jobs=-1)]: Done 1024 out of 1024 | elapsed:    1.3s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done  25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks      | elapsed:    0.1s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.1s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done  25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks      | elapsed:    0.1s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.1s finished

[CV] ... max_features=12, total=    2.3s
[CV] max_features=12 ...

[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.

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[Parallel(n_jobs=-1)]: Done 34 tasks      | elapsed:    0.0s
[Parallel(n_jobs=-1)]: Done 1024 out of 1024 | elapsed:    1.3s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks     | elapsed:    0.1s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.1s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks     | elapsed:    0.1s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.1s finished

[CV] ... max_features=12, total=    2.2s
[CV] max_features=12 ...

[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.
[Parallel(n_jobs=-1)]: Done 34 tasks      | elapsed:    0.0s
[Parallel(n_jobs=-1)]: Done 1024 out of 1024 | elapsed:    1.3s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks     | elapsed:    0.1s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.1s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks     | elapsed:    0.1s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.1s finished

[CV] ... max_features=12, total=    2.2s

[Parallel(n_jobs=1)]: Done 30 out of 30 | elapsed: 1.0min finished
[Parallel(n_jobs=-1)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=-1)]: Done 25 tasks      | elapsed:    0.0s

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[Parallel(n_jobs=-1)]: Done 146 tasks | elapsed: 0.2s

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[Parallel(n_jobs=-1)]: Done 349 tasks | elapsed: 0.6s
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[Parallel(n_jobs=-1)]: Done 632 tasks | elapsed: 1.2s

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[Parallel(n_jobs=-1)]: Done 997 tasks | elapsed: 2.0s
 [Parallel(n_jobs=-1)]: Done 1024 out of 1024 | elapsed: 2.0s finished
 [Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
 [Parallel(n_jobs=8)]: Done 25 tasks | elapsed: 0.0s
 [Parallel(n_jobs=8)]: Done 146 tasks | elapsed: 0.0s
 [Parallel(n_jobs=8)]: Done 349 tasks | elapsed: 0.0s
 [Parallel(n_jobs=8)]: Done 632 tasks | elapsed: 0.1s
 [Parallel(n_jobs=8)]: Done 997 tasks | elapsed: 0.3s
 [Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed: 0.3s finished
 [Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
 [Parallel(n_jobs=8)]: Done 25 tasks | elapsed: 0.0s
 [Parallel(n_jobs=8)]: Done 146 tasks | elapsed: 0.0s
 [Parallel(n_jobs=8)]: Done 349 tasks | elapsed: 0.2s
 [Parallel(n_jobs=8)]: Done 632 tasks | elapsed: 0.5s
 [Parallel(n_jobs=8)]: Done 997 tasks | elapsed: 0.8s

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[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.9s finished
[Parallel(n_jobs=-1)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=-1)]: Done 25 tasks      | elapsed:    0.0s
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[Parallel(n_jobs=-1)]: Done 146 tasks | elapsed: 0.2s

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[Parallel(n_jobs=-1)]: Done 349 tasks | elapsed: 0.6s

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[Parallel(n_jobs=-1)]: Done 632 tasks | elapsed: 1.2s

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[Parallel(n_jobs=-1)]: Done 997 tasks      | elapsed:    1.9s
[Parallel(n_jobs=-1)]: Done 1024 out of 1024 | elapsed:    2.0s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks     | elapsed:    0.0s

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[Parallel(n_jobs=8)]: Done 349 tasks     | elapsed:    0.0s

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[Parallel(n_jobs=8)]: Done 632 tasks      | elapsed:    0.1s
[Parallel(n_jobs=8)]: Done 997 tasks      | elapsed:    0.3s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.3s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks       | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks      | elapsed:    0.2s
[Parallel(n_jobs=8)]: Done 632 tasks      | elapsed:    0.4s
[Parallel(n_jobs=8)]: Done 997 tasks      | elapsed:    0.8s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.8s finished
[Parallel(n_jobs=-1)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=-1)]: Done 25 tasks       | elapsed:    0.0s

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[Parallel(n_jobs=-1)]: Done 146 tasks | elapsed: 0.2s

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[Parallel(n_jobs=-1)]: Done 349 tasks | elapsed: 0.6s
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[Parallel(n_jobs=-1)]: Done 632 tasks | elapsed: 1.1s

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```

```
[Parallel(n_jobs=-1)]: Done 997 tasks      | elapsed:    1.9s
[Parallel(n_jobs=-1)]: Done 1024 out of 1024 | elapsed:    2.0s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks     | elapsed:    0.1s
[Parallel(n_jobs=8)]: Done 997 tasks     | elapsed:    0.3s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.3s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks     | elapsed:    0.2s
[Parallel(n_jobs=8)]: Done 632 tasks     | elapsed:    0.4s
[Parallel(n_jobs=8)]: Done 997 tasks     | elapsed:    0.8s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.8s finished
```

```
[23]: metrics_adult_RF
```

```
[23]: array([[1.          , 1.          , 1.          , 0.85163818, 0.65992373,
              0.76748274],
             [1.          , 1.          , 1.          , 0.84844527, 0.65980392,
              0.76705636],
             [1.          , 1.          , 1.          , 0.85240013, 0.67113444,
              0.7764564 ],
             [1.          , 1.          , 1.          , 0.85131164, 0.668187  ,
              0.77118238],
             [1.          , 1.          , 1.          , 0.85065854, 0.65934429,
              0.76330076]])
```

Decision Trees: ADULT

```
[24]: metrics_adult_DT = np.zeros((5, 6))

for i in range(5):
    print("\n Trial", i+1)
    # randomly split the data. size of training data will be 5000
    X_train, X_test, Y_train, Y_test = train_test_split(X_adult, Y_adult,
    ↪train_size = 5000)

    # initialize the classifier
    classifier_DT = DecisionTreeClassifier(random_state = 0)
```

```

crit_list = ['gini', 'entropy']
depth_list = [1, 2, 3, 4, 5]

parameters = {'criterion': crit_list, 'max_depth': depth_list}

search_clf = GridSearchCV(classifier_DT, parameters, cv =
↳StratifiedKFold(n_splits = 5),
                        scoring = ['accuracy', 'roc_auc_ovr', 'f1_micro'],
↳refit = False, verbose = 0, n_jobs = -1)
match_model = search_clf.fit(X_train, Y_train)

match_param = match_model.cv_results_['params'][np.argmin(match_model.
↳cv_results_['rank_test_roc_auc_ovr'])]
classifier_DT.set_params(**match_param)
classifier_DT.fit(X_train, Y_train)
Y_pred_train_auc = classifier_DT.predict(X_train)
Y_pred_test_auc = classifier_DT.predict(X_test)
metrics_adult_DT[i, 2] = roc_auc_score(Y_train, Y_pred_train_auc)
metrics_adult_DT[i, 5] = roc_auc_score(Y_test, Y_pred_test_auc)

match_param = match_model.cv_results_['params'][np.argmin(match_model.
↳cv_results_['rank_test_accuracy'])]
classifier_DT.set_params(**match_param)
classifier_DT.fit(X_train, Y_train)
Y_pred_train_acc = classifier_DT.predict(X_train)
Y_pred_test_acc = classifier_DT.predict(X_test)
metrics_adult_DT[i, 0] = accuracy_score(Y_train, Y_pred_train_acc)
metrics_adult_DT[i, 3] = accuracy_score(Y_test, Y_pred_test_acc)

match_param = match_model.cv_results_['params'][np.argmin(match_model.
↳cv_results_['rank_test_f1_micro'])]
classifier_DT.set_params(**match_param)
classifier_DT.fit(X_train, Y_train)
Y_pred_train_f1 = classifier_DT.predict(X_train)
Y_pred_test_f1 = classifier_DT.predict(X_test)
metrics_adult_DT[i, 1] = f1_score(Y_train, Y_pred_train_f1)
metrics_adult_DT[i, 4] = f1_score(Y_test, Y_pred_test_f1)

```

Trial 1

Fitting 5 folds for each of 10 candidates, totalling 50 fits

```

[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.
[Parallel(n_jobs=-1)]: Done 25 tasks      | elapsed:    0.7s
[Parallel(n_jobs=-1)]: Done 50 out of 50 | elapsed:    0.8s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks      | elapsed:    0.0s

```

```
[Parallel(n_jobs=8)]: Done 146 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks      | elapsed:    0.2s
[Parallel(n_jobs=8)]: Done 632 tasks      | elapsed:    0.5s
[Parallel(n_jobs=8)]: Done 997 tasks      | elapsed:    0.8s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.8s finished
```

Trial 2

Fitting 5 folds for each of 10 candidates, totalling 50 fits

```
[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.
[Parallel(n_jobs=-1)]: Done 50 out of 50 | elapsed:    0.2s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks      | elapsed:    0.2s
[Parallel(n_jobs=8)]: Done 632 tasks      | elapsed:    0.5s
[Parallel(n_jobs=8)]: Done 997 tasks      | elapsed:    0.8s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.8s finished
```

Trial 3

Fitting 5 folds for each of 10 candidates, totalling 50 fits

```
[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.
[Parallel(n_jobs=-1)]: Done 50 out of 50 | elapsed:    0.2s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks      | elapsed:    0.2s
[Parallel(n_jobs=8)]: Done 632 tasks      | elapsed:    0.5s
[Parallel(n_jobs=8)]: Done 997 tasks      | elapsed:    0.8s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.8s finished
```

Trial 4

Fitting 5 folds for each of 10 candidates, totalling 50 fits

```
[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.
[Parallel(n_jobs=-1)]: Done 50 out of 50 | elapsed:    0.2s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks      | elapsed:    0.2s
[Parallel(n_jobs=8)]: Done 632 tasks      | elapsed:    0.4s
[Parallel(n_jobs=8)]: Done 997 tasks      | elapsed:    0.7s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.8s finished
[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.
```

Trial 5

Fitting 5 folds for each of 10 candidates, totalling 50 fits

```
[Parallel(n_jobs=-1)]: Done 50 out of 50 | elapsed: 0.2s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks | elapsed: 0.0s
[Parallel(n_jobs=8)]: Done 146 tasks | elapsed: 0.0s
[Parallel(n_jobs=8)]: Done 349 tasks | elapsed: 0.2s
[Parallel(n_jobs=8)]: Done 632 tasks | elapsed: 0.4s
[Parallel(n_jobs=8)]: Done 997 tasks | elapsed: 0.8s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed: 0.8s finished
```

```
[25]: metrics_adult_DT
```

```
[25]: array([[0.8614, 0.65436409, 0.75024724, 0.84245855, 0.60577447,
0.79559685],
[0.8532, 0.68551842, 0.73497048, 0.84445412, 0.65766989,
0.79983018],
[0.8522, 0.65643887, 0.76691568, 0.84572403, 0.63831235,
0.79972642],
[0.845, 0.60878344, 0.72755003, 0.84474439, 0.61866144,
0.79891507],
[0.8534, 0.64365581, 0.72413012, 0.85352491, 0.63718882,
0.79892081]])
```

LR: COVTYPE

```
[26]: # standardize data
scaler = StandardScaler()
X_covtype_sc = scaler.fit(X_covtype).transform(X_covtype)
```

```
[27]: metrics_cov_LR = np.zeros((5, 6))

for i in range(5):
    print("\n Trial", i+1)
    # randomly split the data. size of training data will be 5000
    X_train, X_test, Y_train, Y_test = train_test_split(X_covtype_sc,
→Y_covtype, train_size = 5000)

    # initialize the classifier
    classifier_LR = LogisticRegression(penalty = 'l2', max_iter = 5000, solver_
→= 'saga', verbose = 0, n_jobs = -1)

    C_list = [1e-4, 1e-3, 1e-2, 1e-1, 1e0, 1e1, 1e2, 1e3, 1e4, 0]

    parameters = {'C': C_list}
```

```

search_clf = GridSearchCV(classifier_LR, parameters, cv =
↳StratifiedKFold(n_splits = 5),
                        scoring = ['accuracy', 'roc_auc_ovr', 'f1_micro'],
↳refit = False, verbose = 0)
match_model = search_clf.fit(X_train, Y_train)

match_param = match_model.cv_results_['params'][np.argmin(match_model.
↳cv_results_['rank_test_roc_auc_ovr'])]
classifier_LR.set_params(**match_param)
classifier_LR.fit(X_train, Y_train)
Y_pred_train_auc = classifier_LR.predict(X_train)
Y_pred_test_auc = classifier_LR.predict(X_test)
metrics_cov_LR[i, 2] = roc_auc_score(Y_train, Y_pred_train_auc)
metrics_cov_LR[i, 5] = roc_auc_score(Y_test, Y_pred_test_auc)

match_param = match_model.cv_results_['params'][np.argmin(match_model.
↳cv_results_['rank_test_accuracy'])]
classifier_LR.set_params(**match_param)
classifier_LR.fit(X_train, Y_train)
Y_pred_train_acc = classifier_LR.predict(X_train)
Y_pred_test_acc = classifier_LR.predict(X_test)
metrics_cov_LR[i, 0] = accuracy_score(Y_train, Y_pred_train_acc)
metrics_cov_LR[i, 3] = accuracy_score(Y_test, Y_pred_test_acc)

match_param = match_model.cv_results_['params'][np.argmin(match_model.
↳cv_results_['rank_test_f1_micro'])]
classifier_LR.set_params(**match_param)
classifier_LR.fit(X_train, Y_train)
Y_pred_train_f1 = classifier_LR.predict(X_train)
Y_pred_test_f1 = classifier_LR.predict(X_test)
metrics_cov_LR[i, 1] = f1_score(Y_train, Y_pred_train_f1)
metrics_cov_LR[i, 4] = f1_score(Y_test, Y_pred_test_f1)

```

Trial 1

Fitting 5 folds for each of 10 candidates, totalling 50 fits

[CV] C=0.0001 ...

[CV] ... C=0.0001, total= 0.1s

[CV] C=0.0001 ...

[CV] ... C=0.0001, total= 0.1s

[CV] C=0.0001 ...

[Parallel(n_jobs=1)]: Using backend SequentialBackend with 1 concurrent workers.

[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.

[Parallel(n_jobs=-1)]: Done 1 out of 1 | elapsed: 0.0s finished

```

[Parallel(n_jobs=1)]: Done 1 out of 1 | elapsed: 0.0s remaining: 0.0s
[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.
[Parallel(n_jobs=-1)]: Done 1 out of 1 | elapsed: 0.0s finished
[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.
[Parallel(n_jobs=-1)]: Done 1 out of 1 | elapsed: 0.0s finished
[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.
[Parallel(n_jobs=-1)]: Done 1 out of 1 | elapsed: 0.0s finished
[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.
[Parallel(n_jobs=-1)]: Done 1 out of 1 | elapsed: 0.0s finished

[CV] ... C=0.0001, total= 0.1s
[CV] C=0.0001 ...
[CV] ... C=0.0001, total= 0.1s
[CV] C=0.0001 ...
[CV] ... C=0.0001, total= 0.1s

[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.
[Parallel(n_jobs=-1)]: Done 1 out of 1 | elapsed: 0.0s finished
[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.
[Parallel(n_jobs=-1)]: Done 1 out of 1 | elapsed: 0.0s finished

[CV] C=0.001 ...
[CV] ... C=0.001, total= 0.1s
[CV] C=0.001 ...
[CV] ... C=0.001, total= 0.1s

[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.
[Parallel(n_jobs=-1)]: Done 1 out of 1 | elapsed: 0.0s finished
[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.

[CV] C=0.001 ...
[CV] ... C=0.001, total= 0.1s
[CV] C=0.001 ...

[Parallel(n_jobs=-1)]: Done 1 out of 1 | elapsed: 0.0s finished
[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.
[Parallel(n_jobs=-1)]: Done 1 out of 1 | elapsed: 0.0s finished
[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.

[CV] ... C=0.001, total= 0.1s
[CV] C=0.001 ...
[CV] ... C=0.001, total= 0.1s
[CV] C=0.01 ...

[Parallel(n_jobs=-1)]: Done 1 out of 1 | elapsed: 0.1s finished
[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.
[Parallel(n_jobs=-1)]: Done 1 out of 1 | elapsed: 0.1s finished
[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.

[CV] ... C=0.01, total= 0.2s

```

```

[CV] C=0.01 ...
[CV] ... C=0.01, total= 0.2s
[CV] C=0.01 ...

[Parallel(n_jobs=-1)]: Done 1 out of 1 | elapsed: 0.1s finished
[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.

[CV] ... C=0.01, total= 0.2s
[CV] C=0.01 ...

[Parallel(n_jobs=-1)]: Done 1 out of 1 | elapsed: 0.1s finished
[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.

[CV] ... C=0.01, total= 0.2s
[CV] C=0.01 ...

[Parallel(n_jobs=-1)]: Done 1 out of 1 | elapsed: 0.1s finished
[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.

[CV] ... C=0.01, total= 0.2s
[CV] C=0.1 ...

[Parallel(n_jobs=-1)]: Done 1 out of 1 | elapsed: 0.6s finished
[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.

[CV] ... C=0.1, total= 0.7s
[CV] C=0.1 ...

[Parallel(n_jobs=-1)]: Done 1 out of 1 | elapsed: 0.6s finished
[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.

[CV] ... C=0.1, total= 0.7s
[CV] C=0.1 ...

[Parallel(n_jobs=-1)]: Done 1 out of 1 | elapsed: 0.7s finished
[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.

[CV] ... C=0.1, total= 0.8s
[CV] C=0.1 ...

[Parallel(n_jobs=-1)]: Done 1 out of 1 | elapsed: 0.7s finished
[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.

[CV] ... C=0.1, total= 0.8s
[CV] C=0.1 ...

[Parallel(n_jobs=-1)]: Done 1 out of 1 | elapsed: 0.4s finished
[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.

[CV] ... C=0.1, total= 0.5s
[CV] C=1.0 ...

[Parallel(n_jobs=-1)]: Done 1 out of 1 | elapsed: 3.1s finished
[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.

[CV] ... C=1.0, total= 3.2s
[CV] C=1.0 ...

```

```

[Parallel(n_jobs=-1)]: Done 1 out of 1 | elapsed: 3.2s finished
[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.

[CV] ... C=1.0, total= 3.4s
[CV] C=1.0 ...

[Parallel(n_jobs=-1)]: Done 1 out of 1 | elapsed: 3.3s finished
[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.

[CV] ... C=1.0, total= 3.4s
[CV] C=1.0 ...

[Parallel(n_jobs=-1)]: Done 1 out of 1 | elapsed: 3.2s finished
[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.

[CV] ... C=1.0, total= 3.3s
[CV] C=1.0 ...

[Parallel(n_jobs=-1)]: Done 1 out of 1 | elapsed: 2.4s finished
[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.

[CV] ... C=1.0, total= 2.5s
[CV] C=10.0 ...

[Parallel(n_jobs=-1)]: Done 1 out of 1 | elapsed: 5.2s finished
[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.

[CV] ... C=10.0, total= 5.3s
[CV] C=10.0 ...

[Parallel(n_jobs=-1)]: Done 1 out of 1 | elapsed: 6.0s finished
[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.

[CV] ... C=10.0, total= 6.1s
[CV] C=10.0 ...

[Parallel(n_jobs=-1)]: Done 1 out of 1 | elapsed: 5.6s finished
[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.

[CV] ... C=10.0, total= 5.7s
[CV] C=10.0 ...

[Parallel(n_jobs=-1)]: Done 1 out of 1 | elapsed: 5.3s finished
[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.

[CV] ... C=10.0, total= 5.4s
[CV] C=10.0 ...

[Parallel(n_jobs=-1)]: Done 1 out of 1 | elapsed: 4.9s finished
[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.

[CV] ... C=10.0, total= 5.1s
[CV] C=100.0 ...

[Parallel(n_jobs=-1)]: Done 1 out of 1 | elapsed: 5.5s finished
[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.

```

```

[CV] ... C=100.0, total=    5.6s
[CV] C=100.0 ...

[Parallel(n_jobs=-1)]: Done    1 out of    1 | elapsed:    6.1s finished
[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.

[CV] ... C=100.0, total=    6.2s
[CV] C=100.0 ...

[Parallel(n_jobs=-1)]: Done    1 out of    1 | elapsed:    6.0s finished
[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.

[CV] ... C=100.0, total=    6.1s
[CV] C=100.0 ...

[Parallel(n_jobs=-1)]: Done    1 out of    1 | elapsed:    5.8s finished
[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.

[CV] ... C=100.0, total=    5.9s
[CV] C=100.0 ...

[Parallel(n_jobs=-1)]: Done    1 out of    1 | elapsed:    4.9s finished
[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.

[CV] ... C=100.0, total=    5.0s
[CV] C=1000.0 ...

[Parallel(n_jobs=-1)]: Done    1 out of    1 | elapsed:    5.3s finished
[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.

[CV] ... C=1000.0, total=    5.4s
[CV] C=1000.0 ...

[Parallel(n_jobs=-1)]: Done    1 out of    1 | elapsed:    6.1s finished
[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.

[CV] ... C=1000.0, total=    6.2s
[CV] C=1000.0 ...

[Parallel(n_jobs=-1)]: Done    1 out of    1 | elapsed:    5.8s finished
[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.

[CV] ... C=1000.0, total=    5.9s
[CV] C=1000.0 ...

[Parallel(n_jobs=-1)]: Done    1 out of    1 | elapsed:    5.8s finished
[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.

[CV] ... C=1000.0, total=    5.9s
[CV] C=1000.0 ...

[Parallel(n_jobs=-1)]: Done    1 out of    1 | elapsed:    5.1s finished
[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.

[CV] ... C=1000.0, total=    5.2s
[CV] C=10000.0 ...

```

```

[Parallel(n_jobs=-1)]: Done 1 out of 1 | elapsed: 5.5s finished
[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.

[CV] ... C=10000.0, total= 5.6s
[CV] C=10000.0 ...

[Parallel(n_jobs=-1)]: Done 1 out of 1 | elapsed: 6.4s finished
[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.

[CV] ... C=10000.0, total= 6.5s
[CV] C=10000.0 ...

[Parallel(n_jobs=-1)]: Done 1 out of 1 | elapsed: 6.1s finished
[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.

[CV] ... C=10000.0, total= 6.2s
[CV] C=10000.0 ...

[Parallel(n_jobs=-1)]: Done 1 out of 1 | elapsed: 6.0s finished
[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.

[CV] ... C=10000.0, total= 6.1s
[CV] C=10000.0 ...

[Parallel(n_jobs=-1)]: Done 1 out of 1 | elapsed: 5.1s finished
[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.
D:\CodeNameSolus\Apps\lib\site-
packages\sklearn\model_selection\_validation.py:536: FitFailedWarning: Estimator
fit failed. The score on this train-test partition for these parameters will be
set to nan. Details:
ZeroDivisionError: float division by zero

FitFailedWarning)
[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.

[CV] ... C=10000.0, total= 5.2s
[CV] C=0 ...
[CV] ... C=0, total= 0.2s
[CV] C=0 ...

D:\CodeNameSolus\Apps\lib\site-
packages\sklearn\model_selection\_validation.py:536: FitFailedWarning: Estimator
fit failed. The score on this train-test partition for these parameters will be
set to nan. Details:
ZeroDivisionError: float division by zero

FitFailedWarning)
[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.

[CV] ... C=0, total= 1.1s
[CV] C=0 ...

D:\CodeNameSolus\Apps\lib\site-
packages\sklearn\model_selection\_validation.py:536: FitFailedWarning: Estimator

```

fit failed. The score on this train-test partition for these parameters will be set to nan. Details:
ZeroDivisionError: float division by zero

```
FitFailedWarning)
[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.
[CV] ... C=0, total= 1.1s
[CV] C=0 ...
```

```
D:\CodeNameSolus\Apps\lib\site-
packages\sklearn\model_selection\_validation.py:536: FitFailedWarning: Estimator
fit failed. The score on this train-test partition for these parameters will be
set to nan. Details:
ZeroDivisionError: float division by zero
```

```
FitFailedWarning)
[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.
[CV] ... C=0, total= 1.1s
[CV] C=0 ...
```

```
D:\CodeNameSolus\Apps\lib\site-
packages\sklearn\model_selection\_validation.py:536: FitFailedWarning: Estimator
fit failed. The score on this train-test partition for these parameters will be
set to nan. Details:
ZeroDivisionError: float division by zero
```

```
FitFailedWarning)
[Parallel(n_jobs=1)]: Done 50 out of 50 | elapsed: 2.3min finished
[Parallel(n_jobs=-1)]: Using backend ThreadingBackend with 8 concurrent workers.
[CV] ... C=0, total= 1.1s
convergence after 2637 epochs took 7 seconds
[Parallel(n_jobs=-1)]: Done 1 out of 1 | elapsed: 7.2s finished
[Parallel(n_jobs=-1)]: Using backend ThreadingBackend with 8 concurrent workers.
convergence after 2833 epochs took 7 seconds
[Parallel(n_jobs=-1)]: Done 1 out of 1 | elapsed: 7.3s finished
[Parallel(n_jobs=-1)]: Using backend ThreadingBackend with 8 concurrent workers.
convergence after 2836 epochs took 7 seconds
[Parallel(n_jobs=-1)]: Done 1 out of 1 | elapsed: 7.3s finished
```

```
Trial 2
Fitting 5 folds for each of 10 candidates, totalling 50 fits
[CV] C=0.0001 ...
[Parallel(n_jobs=1)]: Using backend SequentialBackend with 1 concurrent workers.
[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.
```



```

[Parallel(n_jobs=-1)]: Done 1 out of 1 | elapsed: 0.9s finished
[Parallel(n_jobs=1)]: Done 1 out of 1 | elapsed: 0.9s remaining: 0.0s
[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.

[CV] ... C=0.0001, total= 1.0s
[CV] C=0.0001 ...

[Parallel(n_jobs=-1)]: Done 1 out of 1 | elapsed: 0.3s finished
[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.

[CV] ... C=0.0001, total= 0.4s
[CV] C=0.0001 ...

[Parallel(n_jobs=-1)]: Done 1 out of 1 | elapsed: 0.3s finished
[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.

[CV] ... C=0.0001, total= 0.5s
[CV] C=0.0001 ...

[Parallel(n_jobs=-1)]: Done 1 out of 1 | elapsed: 0.4s finished
[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.

[CV] ... C=0.0001, total= 0.5s
[CV] C=0.0001 ...

[Parallel(n_jobs=-1)]: Done 1 out of 1 | elapsed: 0.3s finished
[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.

[CV] ... C=0.0001, total= 0.4s
[CV] C=0.001 ...

[Parallel(n_jobs=-1)]: Done 1 out of 1 | elapsed: 0.3s finished
[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.

[CV] ... C=0.001, total= 0.5s
[CV] C=0.001 ...

[Parallel(n_jobs=-1)]: Done 1 out of 1 | elapsed: 0.4s finished
[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.

[CV] ... C=0.001, total= 0.5s
[CV] C=0.001 ...

[Parallel(n_jobs=-1)]: Done 1 out of 1 | elapsed: 0.4s finished
[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.
[Parallel(n_jobs=-1)]: Done 1 out of 1 | elapsed: 0.0s finished
[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.
[Parallel(n_jobs=-1)]: Done 1 out of 1 | elapsed: 0.0s finished
[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.

[CV] ... C=0.001, total= 0.5s
[CV] C=0.001 ...
[CV] ... C=0.001, total= 0.1s
[CV] C=0.001 ...

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[CV] ... C=0.001, total= 0.1s
[CV] C=0.01 ...

[Parallel(n_jobs=-1)]: Done 1 out of 1 | elapsed: 0.1s finished
[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.

[CV] ... C=0.01, total= 0.3s
[CV] C=0.01 ...

[Parallel(n_jobs=-1)]: Done 1 out of 1 | elapsed: 0.1s finished
[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.

[CV] ... C=0.01, total= 0.3s
[CV] C=0.01 ...

[Parallel(n_jobs=-1)]: Done 1 out of 1 | elapsed: 0.1s finished
[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.

[CV] ... C=0.01, total= 0.2s
[CV] C=0.01 ...

[Parallel(n_jobs=-1)]: Done 1 out of 1 | elapsed: 0.1s finished
[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.
[Parallel(n_jobs=-1)]: Done 1 out of 1 | elapsed: 0.0s finished
[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.

[CV] ... C=0.01, total= 0.2s
[CV] C=0.01 ...
[CV] ... C=0.01, total= 0.1s
[CV] C=0.1 ...

[Parallel(n_jobs=-1)]: Done 1 out of 1 | elapsed: 0.3s finished
[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.

[CV] ... C=0.1, total= 0.4s
[CV] C=0.1 ...

[Parallel(n_jobs=-1)]: Done 1 out of 1 | elapsed: 0.4s finished
[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.

[CV] ... C=0.1, total= 0.5s
[CV] C=0.1 ...

[Parallel(n_jobs=-1)]: Done 1 out of 1 | elapsed: 0.3s finished
[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.

[CV] ... C=0.1, total= 0.5s
[CV] C=0.1 ...

[Parallel(n_jobs=-1)]: Done 1 out of 1 | elapsed: 0.4s finished
[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.

[CV] ... C=0.1, total= 0.5s
[CV] C=0.1 ...

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[Parallel(n_jobs=-1)]: Done 1 out of 1 | elapsed: 0.2s finished
[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.

[CV] ... C=0.1, total= 0.4s
[CV] C=1.0 ...

[Parallel(n_jobs=-1)]: Done 1 out of 1 | elapsed: 1.0s finished
[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.

[CV] ... C=1.0, total= 1.1s
[CV] C=1.0 ...

[Parallel(n_jobs=-1)]: Done 1 out of 1 | elapsed: 1.2s finished
[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.

[CV] ... C=1.0, total= 1.3s
[CV] C=1.0 ...

[Parallel(n_jobs=-1)]: Done 1 out of 1 | elapsed: 1.1s finished
[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.

[CV] ... C=1.0, total= 1.2s
[CV] C=1.0 ...

[Parallel(n_jobs=-1)]: Done 1 out of 1 | elapsed: 1.2s finished
[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.

[CV] ... C=1.0, total= 1.3s
[CV] C=1.0 ...

[Parallel(n_jobs=-1)]: Done 1 out of 1 | elapsed: 0.9s finished
[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.

[CV] ... C=1.0, total= 1.0s
[CV] C=10.0 ...

[Parallel(n_jobs=-1)]: Done 1 out of 1 | elapsed: 1.4s finished
[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.

[CV] ... C=10.0, total= 1.5s
[CV] C=10.0 ...

[Parallel(n_jobs=-1)]: Done 1 out of 1 | elapsed: 1.7s finished
[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.

[CV] ... C=10.0, total= 1.8s
[CV] C=10.0 ...

[Parallel(n_jobs=-1)]: Done 1 out of 1 | elapsed: 1.5s finished
[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.

[CV] ... C=10.0, total= 1.6s
[CV] C=10.0 ...

[Parallel(n_jobs=-1)]: Done 1 out of 1 | elapsed: 1.6s finished
[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.

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[CV] ... C=10.0, total=    1.7s
[CV] C=10.0 ...

[Parallel(n_jobs=-1)]: Done    1 out of    1 | elapsed:    1.7s finished
[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.

[CV] ... C=10.0, total=    1.8s
[CV] C=100.0 ...

[Parallel(n_jobs=-1)]: Done    1 out of    1 | elapsed:    1.4s finished
[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.

[CV] ... C=100.0, total=    1.6s
[CV] C=100.0 ...

[Parallel(n_jobs=-1)]: Done    1 out of    1 | elapsed:    1.7s finished
[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.

[CV] ... C=100.0, total=    1.8s
[CV] C=100.0 ...

[Parallel(n_jobs=-1)]: Done    1 out of    1 | elapsed:    1.5s finished
[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.

[CV] ... C=100.0, total=    1.7s
[CV] C=100.0 ...

[Parallel(n_jobs=-1)]: Done    1 out of    1 | elapsed:    1.6s finished
[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.

[CV] ... C=100.0, total=    1.7s
[CV] C=100.0 ...

[Parallel(n_jobs=-1)]: Done    1 out of    1 | elapsed:    1.9s finished
[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.

[CV] ... C=100.0, total=    2.0s
[CV] C=1000.0 ...

[Parallel(n_jobs=-1)]: Done    1 out of    1 | elapsed:    1.4s finished
[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.

[CV] ... C=1000.0, total=    1.5s
[CV] C=1000.0 ...

[Parallel(n_jobs=-1)]: Done    1 out of    1 | elapsed:    1.7s finished
[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.

[CV] ... C=1000.0, total=    1.8s
[CV] C=1000.0 ...

[Parallel(n_jobs=-1)]: Done    1 out of    1 | elapsed:    1.5s finished
[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.

[CV] ... C=1000.0, total=    1.6s
[CV] C=1000.0 ...

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[Parallel(n_jobs=-1)]: Done 1 out of 1 | elapsed: 1.7s finished
[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.

[CV] ... C=1000.0, total= 1.8s
[CV] C=1000.0 ...

[Parallel(n_jobs=-1)]: Done 1 out of 1 | elapsed: 2.0s finished
[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.

[CV] ... C=1000.0, total= 2.1s
[CV] C=10000.0 ...

[Parallel(n_jobs=-1)]: Done 1 out of 1 | elapsed: 1.5s finished
[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.

[CV] ... C=10000.0, total= 1.6s
[CV] C=10000.0 ...

[Parallel(n_jobs=-1)]: Done 1 out of 1 | elapsed: 1.8s finished
[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.

[CV] ... C=10000.0, total= 1.9s
[CV] C=10000.0 ...

[Parallel(n_jobs=-1)]: Done 1 out of 1 | elapsed: 1.6s finished
[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.

[CV] ... C=10000.0, total= 1.8s
[CV] C=10000.0 ...

[Parallel(n_jobs=-1)]: Done 1 out of 1 | elapsed: 1.7s finished
[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.

[CV] ... C=10000.0, total= 1.8s
[CV] C=10000.0 ...

[Parallel(n_jobs=-1)]: Done 1 out of 1 | elapsed: 2.1s finished
[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.
D:\CodeNameSolus\Apps\lib\site-
packages\sklearn\model_selection\_validation.py:536: FitFailedWarning: Estimator
fit failed. The score on this train-test partition for these parameters will be
set to nan. Details:
ZeroDivisionError: float division by zero

FitFailedWarning)
[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.

[CV] ... C=10000.0, total= 2.2s
[CV] C=0 ...
[CV] ... C=0, total= 0.2s
[CV] C=0 ...

D:\CodeNameSolus\Apps\lib\site-
packages\sklearn\model_selection\_validation.py:536: FitFailedWarning: Estimator
fit failed. The score on this train-test partition for these parameters will be

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set to nan. Details:
ZeroDivisionError: float division by zero

FitFailedWarning)
[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.
[CV] ... C=0, total= 1.1s
[CV] C=0 ...

D:\CodeNameSolus\Apps\lib\site-
packages\sklearn\model_selection\_validation.py:536: FitFailedWarning: Estimator
fit failed. The score on this train-test partition for these parameters will be
set to nan. Details:
ZeroDivisionError: float division by zero

FitFailedWarning)
[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.
[CV] ... C=0, total= 1.1s
[CV] C=0 ...

D:\CodeNameSolus\Apps\lib\site-
packages\sklearn\model_selection\_validation.py:536: FitFailedWarning: Estimator
fit failed. The score on this train-test partition for these parameters will be
set to nan. Details:
ZeroDivisionError: float division by zero

FitFailedWarning)
[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.
[CV] ... C=0, total= 1.1s
[CV] C=0 ...

D:\CodeNameSolus\Apps\lib\site-
packages\sklearn\model_selection\_validation.py:536: FitFailedWarning: Estimator
fit failed. The score on this train-test partition for these parameters will be
set to nan. Details:
ZeroDivisionError: float division by zero

FitFailedWarning)
[Parallel(n_jobs=1)]: Done 50 out of 50 | elapsed: 53.4s finished
[Parallel(n_jobs=-1)]: Using backend ThreadingBackend with 8 concurrent workers.
[CV] ... C=0, total= 1.1s
convergence after 223 epochs took 1 seconds

[Parallel(n_jobs=-1)]: Done 1 out of 1 | elapsed: 0.5s finished
[Parallel(n_jobs=-1)]: Using backend ThreadingBackend with 8 concurrent workers.
convergence after 611 epochs took 2 seconds

[Parallel(n_jobs=-1)]: Done 1 out of 1 | elapsed: 1.6s finished
[Parallel(n_jobs=-1)]: Using backend ThreadingBackend with 8 concurrent workers.

```

convergence after 609 epochs took 2 seconds

[Parallel(n_jobs=-1)]: Done 1 out of 1 | elapsed: 1.6s finished

Trial 3

Fitting 5 folds for each of 10 candidates, totalling 50 fits

[CV] C=0.0001 ...

[Parallel(n_jobs=1)]: Using backend SequentialBackend with 1 concurrent workers.

[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.

[Parallel(n_jobs=-1)]: Done 1 out of 1 | elapsed: 1.0s finished

[Parallel(n_jobs=1)]: Done 1 out of 1 | elapsed: 1.0s remaining: 0.0s

[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.

[CV] ... C=0.0001, total= 1.1s

[CV] C=0.0001 ...

[Parallel(n_jobs=-1)]: Done 1 out of 1 | elapsed: 0.4s finished

[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.

[CV] ... C=0.0001, total= 0.5s

[CV] C=0.0001 ...

[Parallel(n_jobs=-1)]: Done 1 out of 1 | elapsed: 0.4s finished

[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.

[CV] ... C=0.0001, total= 0.5s

[CV] C=0.0001 ...

[Parallel(n_jobs=-1)]: Done 1 out of 1 | elapsed: 0.4s finished

[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.

[CV] ... C=0.0001, total= 0.5s

[CV] C=0.0001 ...

[Parallel(n_jobs=-1)]: Done 1 out of 1 | elapsed: 0.4s finished

[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.

[CV] ... C=0.0001, total= 0.5s

[CV] C=0.001 ...

[Parallel(n_jobs=-1)]: Done 1 out of 1 | elapsed: 0.4s finished

[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.

[CV] ... C=0.001, total= 0.5s

[CV] C=0.001 ...

[Parallel(n_jobs=-1)]: Done 1 out of 1 | elapsed: 0.4s finished

[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.

[CV] ... C=0.001, total= 0.5s

[CV] C=0.001 ...

[Parallel(n_jobs=-1)]: Done 1 out of 1 | elapsed: 0.4s finished

[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.

```

[Parallel(n_jobs=-1)]: Done 1 out of 1 | elapsed: 0.0s finished
[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.
[Parallel(n_jobs=-1)]: Done 1 out of 1 | elapsed: 0.0s finished

[CV] ... C=0.001, total= 0.5s
[CV] C=0.001 ...
[CV] ... C=0.001, total= 0.1s
[CV] C=0.001 ...
[CV] ... C=0.001, total= 0.1s
[CV] C=0.01 ...

[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.
[Parallel(n_jobs=-1)]: Done 1 out of 1 | elapsed: 0.1s finished
[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.

[CV] ... C=0.01, total= 0.2s
[CV] C=0.01 ...

[Parallel(n_jobs=-1)]: Done 1 out of 1 | elapsed: 0.1s finished
[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.

[CV] ... C=0.01, total= 0.2s
[CV] C=0.01 ...

[Parallel(n_jobs=-1)]: Done 1 out of 1 | elapsed: 0.1s finished
[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.
[Parallel(n_jobs=-1)]: Done 1 out of 1 | elapsed: 0.1s finished
[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.

[CV] ... C=0.01, total= 0.2s
[CV] C=0.01 ...
[CV] ... C=0.01, total= 0.2s
[CV] C=0.1 ...

[Parallel(n_jobs=-1)]: Done 1 out of 1 | elapsed: 0.5s finished
[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.

[CV] ... C=0.1, total= 0.6s
[CV] C=0.1 ...

[Parallel(n_jobs=-1)]: Done 1 out of 1 | elapsed: 0.5s finished
[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.

[CV] ... C=0.1, total= 0.6s
[CV] C=0.1 ...

[Parallel(n_jobs=-1)]: Done 1 out of 1 | elapsed: 0.6s finished
[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.

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[CV] ... C=0.1, total= 0.7s
[CV] C=0.1 ...

[Parallel(n_jobs=-1)]: Done 1 out of 1 | elapsed: 0.4s finished
[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.

[CV] ... C=0.1, total= 0.5s
[CV] C=0.1 ...

[Parallel(n_jobs=-1)]: Done 1 out of 1 | elapsed: 0.4s finished
[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.

[CV] ... C=0.1, total= 0.5s
[CV] C=1.0 ...

[Parallel(n_jobs=-1)]: Done 1 out of 1 | elapsed: 1.3s finished
[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.

[CV] ... C=1.0, total= 1.4s
[CV] C=1.0 ...

[Parallel(n_jobs=-1)]: Done 1 out of 1 | elapsed: 2.0s finished
[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.

[CV] ... C=1.0, total= 2.1s
[CV] C=1.0 ...

[Parallel(n_jobs=-1)]: Done 1 out of 1 | elapsed: 2.8s finished
[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.

[CV] ... C=1.0, total= 2.9s
[CV] C=1.0 ...

[Parallel(n_jobs=-1)]: Done 1 out of 1 | elapsed: 1.3s finished
[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.

[CV] ... C=1.0, total= 1.4s
[CV] C=1.0 ...

[Parallel(n_jobs=-1)]: Done 1 out of 1 | elapsed: 1.4s finished
[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.

[CV] ... C=1.0, total= 1.5s
[CV] C=10.0 ...

[Parallel(n_jobs=-1)]: Done 1 out of 1 | elapsed: 2.1s finished
[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.

[CV] ... C=10.0, total= 2.2s
[CV] C=10.0 ...

[Parallel(n_jobs=-1)]: Done 1 out of 1 | elapsed: 3.3s finished
[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.

[CV] ... C=10.0, total= 3.4s
[CV] C=10.0 ...

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[Parallel(n_jobs=-1)]: Done 1 out of 1 | elapsed: 4.9s finished
[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.

[CV] ... C=10.0, total= 5.1s
[CV] C=10.0 ...

[Parallel(n_jobs=-1)]: Done 1 out of 1 | elapsed: 1.7s finished
[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.

[CV] ... C=10.0, total= 1.8s
[CV] C=10.0 ...

[Parallel(n_jobs=-1)]: Done 1 out of 1 | elapsed: 2.4s finished
[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.

[CV] ... C=10.0, total= 2.6s
[CV] C=100.0 ...

[Parallel(n_jobs=-1)]: Done 1 out of 1 | elapsed: 2.3s finished
[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.

[CV] ... C=100.0, total= 2.4s
[CV] C=100.0 ...

[Parallel(n_jobs=-1)]: Done 1 out of 1 | elapsed: 3.4s finished
[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.

[CV] ... C=100.0, total= 3.5s
[CV] C=100.0 ...

[Parallel(n_jobs=-1)]: Done 1 out of 1 | elapsed: 5.2s finished
[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.

[CV] ... C=100.0, total= 5.3s
[CV] C=100.0 ...

[Parallel(n_jobs=-1)]: Done 1 out of 1 | elapsed: 1.6s finished
[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.

[CV] ... C=100.0, total= 1.7s
[CV] C=100.0 ...

[Parallel(n_jobs=-1)]: Done 1 out of 1 | elapsed: 2.3s finished
[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.

[CV] ... C=100.0, total= 2.4s
[CV] C=1000.0 ...

[Parallel(n_jobs=-1)]: Done 1 out of 1 | elapsed: 2.2s finished
[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.

[CV] ... C=1000.0, total= 2.3s
[CV] C=1000.0 ...

[Parallel(n_jobs=-1)]: Done 1 out of 1 | elapsed: 3.4s finished
[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.

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[CV] ... C=1000.0, total= 3.5s
[CV] C=1000.0 ...

[Parallel(n_jobs=-1)]: Done 1 out of 1 | elapsed: 5.1s finished
[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.

[CV] ... C=1000.0, total= 5.2s
[CV] C=1000.0 ...

[Parallel(n_jobs=-1)]: Done 1 out of 1 | elapsed: 1.6s finished
[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.

[CV] ... C=1000.0, total= 1.7s
[CV] C=1000.0 ...

[Parallel(n_jobs=-1)]: Done 1 out of 1 | elapsed: 2.4s finished
[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.

[CV] ... C=1000.0, total= 2.5s
[CV] C=10000.0 ...

[Parallel(n_jobs=-1)]: Done 1 out of 1 | elapsed: 2.2s finished
[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.

[CV] ... C=10000.0, total= 2.3s
[CV] C=10000.0 ...

[Parallel(n_jobs=-1)]: Done 1 out of 1 | elapsed: 3.5s finished
[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.

[CV] ... C=10000.0, total= 3.6s
[CV] C=10000.0 ...

[Parallel(n_jobs=-1)]: Done 1 out of 1 | elapsed: 5.3s finished
[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.

[CV] ... C=10000.0, total= 5.4s
[CV] C=10000.0 ...

[Parallel(n_jobs=-1)]: Done 1 out of 1 | elapsed: 1.7s finished
[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.

[CV] ... C=10000.0, total= 1.8s
[CV] C=10000.0 ...

[Parallel(n_jobs=-1)]: Done 1 out of 1 | elapsed: 2.4s finished
[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.
D:\CodeNameSolus\Apps\lib\site-
packages\sklearn\model_selection\_validation.py:536: FitFailedWarning: Estimator
fit failed. The score on this train-test partition for these parameters will be
set to nan. Details:
ZeroDivisionError: float division by zero

FitFailedWarning)
[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.

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[CV] ... C=10000.0, total= 2.5s

[CV] C=0 ...

[CV] ... C=0, total= 0.2s

[CV] C=0 ...

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packages\sklearn\model_selection_validation.py:536: FitFailedWarning: Estimator fit failed. The score on this train-test partition for these parameters will be set to nan. Details:

ZeroDivisionError: float division by zero

FitFailedWarning)

[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.

[CV] ... C=0, total= 1.1s

[CV] C=0 ...

D:\CodeNameSolus\Apps\lib\site-

packages\sklearn\model_selection_validation.py:536: FitFailedWarning: Estimator fit failed. The score on this train-test partition for these parameters will be set to nan. Details:

ZeroDivisionError: float division by zero

FitFailedWarning)

[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.

[CV] ... C=0, total= 1.1s

[CV] C=0 ...

D:\CodeNameSolus\Apps\lib\site-

packages\sklearn\model_selection_validation.py:536: FitFailedWarning: Estimator fit failed. The score on this train-test partition for these parameters will be set to nan. Details:

ZeroDivisionError: float division by zero

FitFailedWarning)

[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.

[CV] ... C=0, total= 1.1s

[CV] C=0 ...

D:\CodeNameSolus\Apps\lib\site-

packages\sklearn\model_selection_validation.py:536: FitFailedWarning: Estimator fit failed. The score on this train-test partition for these parameters will be set to nan. Details:

ZeroDivisionError: float division by zero

FitFailedWarning)

[Parallel(n_jobs=1)]: Done 50 out of 50 | elapsed: 1.4min finished

[Parallel(n_jobs=-1)]: Using backend ThreadingBackend with 8 concurrent workers.

```

[CV] ... C=0, total= 1.1s
convergence after 245 epochs took 1 seconds

[Parallel(n_jobs=-1)]: Done 1 out of 1 | elapsed: 0.6s finished
[Parallel(n_jobs=-1)]: Using backend ThreadingBackend with 8 concurrent workers.

convergence after 1565 epochs took 4 seconds

[Parallel(n_jobs=-1)]: Done 1 out of 1 | elapsed: 3.9s finished
[Parallel(n_jobs=-1)]: Using backend ThreadingBackend with 8 concurrent workers.

convergence after 1566 epochs took 4 seconds

[Parallel(n_jobs=-1)]: Done 1 out of 1 | elapsed: 3.9s finished


Trial 4
Fitting 5 folds for each of 10 candidates, totalling 50 fits
[CV] C=0.0001 ...

[Parallel(n_jobs=1)]: Using backend SequentialBackend with 1 concurrent workers.
[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.
[Parallel(n_jobs=-1)]: Done 1 out of 1 | elapsed: 0.8s finished
[Parallel(n_jobs=1)]: Done 1 out of 1 | elapsed: 0.8s remaining: 0.0s
[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.

[CV] ... C=0.0001, total= 0.9s
[CV] C=0.0001 ...

[Parallel(n_jobs=-1)]: Done 1 out of 1 | elapsed: 0.3s finished
[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.

[CV] ... C=0.0001, total= 0.4s
[CV] C=0.0001 ...

[Parallel(n_jobs=-1)]: Done 1 out of 1 | elapsed: 0.3s finished
[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.

[CV] ... C=0.0001, total= 0.4s
[CV] C=0.0001 ...

[Parallel(n_jobs=-1)]: Done 1 out of 1 | elapsed: 0.4s finished
[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.

[CV] ... C=0.0001, total= 0.5s
[CV] C=0.0001 ...

[Parallel(n_jobs=-1)]: Done 1 out of 1 | elapsed: 0.4s finished
[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.

[CV] ... C=0.0001, total= 0.5s
[CV] C=0.001 ...

[Parallel(n_jobs=-1)]: Done 1 out of 1 | elapsed: 0.4s finished
[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.

```

```

[CV] ... C=0.001, total=    0.5s
[CV] C=0.001 ...

[Parallel(n_jobs=-1)]: Done    1 out of    1 | elapsed:    0.3s finished
[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.

[CV] ... C=0.001, total=    0.4s
[CV] C=0.001 ...

[Parallel(n_jobs=-1)]: Done    1 out of    1 | elapsed:    0.4s finished
[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.
[Parallel(n_jobs=-1)]: Done    1 out of    1 | elapsed:    0.0s finished
[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.
[Parallel(n_jobs=-1)]: Done    1 out of    1 | elapsed:    0.0s finished

[CV] ... C=0.001, total=    0.5s
[CV] C=0.001 ...
[CV] ... C=0.001, total=    0.1s
[CV] C=0.001 ...

[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.

[CV] ... C=0.001, total=    0.1s
[CV] C=0.01 ...

[Parallel(n_jobs=-1)]: Done    1 out of    1 | elapsed:    0.1s finished
[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.
[Parallel(n_jobs=-1)]: Done    1 out of    1 | elapsed:    0.0s finished
[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.

[CV] ... C=0.01, total=    0.2s
[CV] C=0.01 ...
[CV] ... C=0.01, total=    0.1s
[CV] C=0.01 ...

[Parallel(n_jobs=-1)]: Done    1 out of    1 | elapsed:    0.1s finished
[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.

[CV] ... C=0.01, total=    0.2s
[CV] C=0.01 ...

[Parallel(n_jobs=-1)]: Done    1 out of    1 | elapsed:    0.1s finished
[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.

[CV] ... C=0.01, total=    0.2s
[CV] C=0.01 ...

[Parallel(n_jobs=-1)]: Done    1 out of    1 | elapsed:    0.1s finished
[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.

[CV] ... C=0.01, total=    0.2s
[CV] C=0.1 ...

[Parallel(n_jobs=-1)]: Done    1 out of    1 | elapsed:    0.4s finished
[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.

```

```

[CV] ... C=0.1, total= 0.5s
[CV] C=0.1 ...

[Parallel(n_jobs=-1)]: Done 1 out of 1 | elapsed: 0.4s finished
[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.

[CV] ... C=0.1, total= 0.5s
[CV] C=0.1 ...

[Parallel(n_jobs=-1)]: Done 1 out of 1 | elapsed: 0.5s finished
[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.

[CV] ... C=0.1, total= 0.6s
[CV] C=0.1 ...

[Parallel(n_jobs=-1)]: Done 1 out of 1 | elapsed: 0.6s finished
[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.

[CV] ... C=0.1, total= 0.7s
[CV] C=0.1 ...

[Parallel(n_jobs=-1)]: Done 1 out of 1 | elapsed: 0.5s finished
[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.

[CV] ... C=0.1, total= 0.6s
[CV] C=1.0 ...

[Parallel(n_jobs=-1)]: Done 1 out of 1 | elapsed: 1.9s finished
[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.

[CV] ... C=1.0, total= 2.0s
[CV] C=1.0 ...

[Parallel(n_jobs=-1)]: Done 1 out of 1 | elapsed: 2.2s finished
[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.

[CV] ... C=1.0, total= 2.3s
[CV] C=1.0 ...

[Parallel(n_jobs=-1)]: Done 1 out of 1 | elapsed: 2.3s finished
[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.

[CV] ... C=1.0, total= 2.4s
[CV] C=1.0 ...

[Parallel(n_jobs=-1)]: Done 1 out of 1 | elapsed: 3.2s finished
[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.

[CV] ... C=1.0, total= 3.3s
[CV] C=1.0 ...

[Parallel(n_jobs=-1)]: Done 1 out of 1 | elapsed: 1.3s finished
[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.

[CV] ... C=1.0, total= 1.4s
[CV] C=10.0 ...

```

```

[Parallel(n_jobs=-1)]: Done 1 out of 1 | elapsed: 3.1s finished
[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.

[CV] ... C=10.0, total= 3.2s
[CV] C=10.0 ...

[Parallel(n_jobs=-1)]: Done 1 out of 1 | elapsed: 4.0s finished
[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.

[CV] ... C=10.0, total= 4.1s
[CV] C=10.0 ...

[Parallel(n_jobs=-1)]: Done 1 out of 1 | elapsed: 4.3s finished
[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.

[CV] ... C=10.0, total= 4.4s
[CV] C=10.0 ...

[Parallel(n_jobs=-1)]: Done 1 out of 1 | elapsed: 5.9s finished
[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.

[CV] ... C=10.0, total= 6.0s
[CV] C=10.0 ...

[Parallel(n_jobs=-1)]: Done 1 out of 1 | elapsed: 1.9s finished
[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.

[CV] ... C=10.0, total= 2.1s
[CV] C=100.0 ...

[Parallel(n_jobs=-1)]: Done 1 out of 1 | elapsed: 3.4s finished
[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.

[CV] ... C=100.0, total= 3.5s
[CV] C=100.0 ...

[Parallel(n_jobs=-1)]: Done 1 out of 1 | elapsed: 4.4s finished
[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.

[CV] ... C=100.0, total= 4.5s
[CV] C=100.0 ...

[Parallel(n_jobs=-1)]: Done 1 out of 1 | elapsed: 5.7s finished
[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.

[CV] ... C=100.0, total= 5.8s
[CV] C=100.0 ...

[Parallel(n_jobs=-1)]: Done 1 out of 1 | elapsed: 6.2s finished
[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.

[CV] ... C=100.0, total= 6.3s
[CV] C=100.0 ...

[Parallel(n_jobs=-1)]: Done 1 out of 1 | elapsed: 2.1s finished
[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.

```



```

[CV] ... C=100.0, total= 2.2s
[CV] C=1000.0 ...

[Parallel(n_jobs=-1)]: Done 1 out of 1 | elapsed: 3.3s finished
[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.

[CV] ... C=1000.0, total= 3.4s
[CV] C=1000.0 ...

[Parallel(n_jobs=-1)]: Done 1 out of 1 | elapsed: 4.3s finished
[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.

[CV] ... C=1000.0, total= 4.4s
[CV] C=1000.0 ...

[Parallel(n_jobs=-1)]: Done 1 out of 1 | elapsed: 4.5s finished
[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.

[CV] ... C=1000.0, total= 4.6s
[CV] C=1000.0 ...

[Parallel(n_jobs=-1)]: Done 1 out of 1 | elapsed: 6.2s finished
[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.

[CV] ... C=1000.0, total= 6.3s
[CV] C=1000.0 ...

[Parallel(n_jobs=-1)]: Done 1 out of 1 | elapsed: 2.2s finished
[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.

[CV] ... C=1000.0, total= 2.3s
[CV] C=10000.0 ...

[Parallel(n_jobs=-1)]: Done 1 out of 1 | elapsed: 3.3s finished
[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.

[CV] ... C=10000.0, total= 3.4s
[CV] C=10000.0 ...

[Parallel(n_jobs=-1)]: Done 1 out of 1 | elapsed: 4.2s finished
[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.

[CV] ... C=10000.0, total= 4.3s
[CV] C=10000.0 ...

[Parallel(n_jobs=-1)]: Done 1 out of 1 | elapsed: 4.5s finished
[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.

[CV] ... C=10000.0, total= 4.6s
[CV] C=10000.0 ...

[Parallel(n_jobs=-1)]: Done 1 out of 1 | elapsed: 6.2s finished
[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.

[CV] ... C=10000.0, total= 6.3s
[CV] C=10000.0 ...

```

```
[Parallel(n_jobs=-1)]: Done 1 out of 1 | elapsed: 2.3s finished
[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.
D:\CodeNameSolus\Apps\lib\site-
packages\sklearn\model_selection\_validation.py:536: FitFailedWarning: Estimator
fit failed. The score on this train-test partition for these parameters will be
set to nan. Details:
ZeroDivisionError: float division by zero
```

```
FitFailedWarning)
[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.
[CV] ... C=10000.0, total= 2.4s
[CV] C=0 ...
[CV] ... C=0, total= 0.1s
[CV] C=0 ...
D:\CodeNameSolus\Apps\lib\site-
packages\sklearn\model_selection\_validation.py:536: FitFailedWarning: Estimator
fit failed. The score on this train-test partition for these parameters will be
set to nan. Details:
ZeroDivisionError: float division by zero
```

```
FitFailedWarning)
[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.
[CV] ... C=0, total= 1.1s
[CV] C=0 ...
D:\CodeNameSolus\Apps\lib\site-
packages\sklearn\model_selection\_validation.py:536: FitFailedWarning: Estimator
fit failed. The score on this train-test partition for these parameters will be
set to nan. Details:
ZeroDivisionError: float division by zero
```

```
FitFailedWarning)
[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.
[CV] ... C=0, total= 1.1s
[CV] C=0 ...
D:\CodeNameSolus\Apps\lib\site-
packages\sklearn\model_selection\_validation.py:536: FitFailedWarning: Estimator
fit failed. The score on this train-test partition for these parameters will be
set to nan. Details:
ZeroDivisionError: float division by zero
```

```
FitFailedWarning)
[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.
[CV] ... C=0, total= 1.1s
[CV] C=0 ...
```

```
D:\CodeNameSolus\Apps\lib\site-  
packages\sklearn\model_selection\_validation.py:536: FitFailedWarning: Estimator  
fit failed. The score on this train-test partition for these parameters will be  
set to nan. Details:  
ZeroDivisionError: float division by zero
```

```
FitFailedWarning)  
[Parallel(n_jobs=1)]: Done 50 out of 50 | elapsed: 1.8min finished  
[Parallel(n_jobs=-1)]: Using backend ThreadingBackend with 8 concurrent workers.  
  
[CV] ... C=0, total= 1.1s  
convergence after 1309 epochs took 4 seconds  
  
[Parallel(n_jobs=-1)]: Done 1 out of 1 | elapsed: 3.3s finished  
[Parallel(n_jobs=-1)]: Using backend ThreadingBackend with 8 concurrent workers.  
  
convergence after 274 epochs took 1 seconds  
  
[Parallel(n_jobs=-1)]: Done 1 out of 1 | elapsed: 0.6s finished  
[Parallel(n_jobs=-1)]: Using backend ThreadingBackend with 8 concurrent workers.  
  
convergence after 276 epochs took 1 seconds  
  
[Parallel(n_jobs=-1)]: Done 1 out of 1 | elapsed: 0.6s finished
```

```
Trial 5  
Fitting 5 folds for each of 10 candidates, totalling 50 fits  
[CV] C=0.0001 ...  
  
[Parallel(n_jobs=1)]: Using backend SequentialBackend with 1 concurrent workers.  
[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.  
[Parallel(n_jobs=-1)]: Done 1 out of 1 | elapsed: 0.9s finished  
[Parallel(n_jobs=1)]: Done 1 out of 1 | elapsed: 0.9s remaining: 0.0s  
[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.  
  
[CV] ... C=0.0001, total= 1.0s  
[CV] C=0.0001 ...  
  
[Parallel(n_jobs=-1)]: Done 1 out of 1 | elapsed: 0.3s finished  
[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.  
  
[CV] ... C=0.0001, total= 0.4s  
[CV] C=0.0001 ...  
  
[Parallel(n_jobs=-1)]: Done 1 out of 1 | elapsed: 0.3s finished  
[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.  
  
[CV] ... C=0.0001, total= 0.4s  
[CV] C=0.0001 ...  
  
[Parallel(n_jobs=-1)]: Done 1 out of 1 | elapsed: 0.3s finished  
[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.
```

```

[CV] ... C=0.0001, total= 0.5s
[CV] C=0.0001 ...

[Parallel(n_jobs=-1)]: Done 1 out of 1 | elapsed: 0.4s finished
[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.

[CV] ... C=0.0001, total= 0.5s
[CV] C=0.001 ...

[Parallel(n_jobs=-1)]: Done 1 out of 1 | elapsed: 0.4s finished
[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.

[CV] ... C=0.001, total= 0.5s
[CV] C=0.001 ...

[Parallel(n_jobs=-1)]: Done 1 out of 1 | elapsed: 0.3s finished
[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.

[CV] ... C=0.001, total= 0.5s
[CV] C=0.001 ...

[Parallel(n_jobs=-1)]: Done 1 out of 1 | elapsed: 0.4s finished
[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.
[Parallel(n_jobs=-1)]: Done 1 out of 1 | elapsed: 0.0s finished
[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.
[Parallel(n_jobs=-1)]: Done 1 out of 1 | elapsed: 0.0s finished

[CV] ... C=0.001, total= 0.5s
[CV] C=0.001 ...
[CV] ... C=0.001, total= 0.1s
[CV] C=0.001 ...

[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.

[CV] ... C=0.001, total= 0.1s
[CV] C=0.01 ...

[Parallel(n_jobs=-1)]: Done 1 out of 1 | elapsed: 0.1s finished
[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.
[Parallel(n_jobs=-1)]: Done 1 out of 1 | elapsed: 0.1s finished
[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.

[CV] ... C=0.01, total= 0.2s
[CV] C=0.01 ...
[CV] ... C=0.01, total= 0.2s
[CV] C=0.01 ...

[Parallel(n_jobs=-1)]: Done 1 out of 1 | elapsed: 0.1s finished
[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.

[CV] ... C=0.01, total= 0.2s
[CV] C=0.01 ...

[Parallel(n_jobs=-1)]: Done 1 out of 1 | elapsed: 0.1s finished
[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.

```

```

[CV] ... C=0.01, total=    0.2s
[CV] C=0.01 ...

[Parallel(n_jobs=-1)]: Done    1 out of    1 | elapsed:    0.1s finished
[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.

[CV] ... C=0.01, total=    0.2s
[CV] C=0.1 ...

[Parallel(n_jobs=-1)]: Done    1 out of    1 | elapsed:    0.4s finished
[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.

[CV] ... C=0.1, total=    0.5s
[CV] C=0.1 ...

[Parallel(n_jobs=-1)]: Done    1 out of    1 | elapsed:    0.4s finished
[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.

[CV] ... C=0.1, total=    0.5s
[CV] C=0.1 ...

[Parallel(n_jobs=-1)]: Done    1 out of    1 | elapsed:    0.5s finished
[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.

[CV] ... C=0.1, total=    0.6s
[CV] C=0.1 ...

[Parallel(n_jobs=-1)]: Done    1 out of    1 | elapsed:    0.5s finished
[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.

[CV] ... C=0.1, total=    0.6s
[CV] C=0.1 ...

[Parallel(n_jobs=-1)]: Done    1 out of    1 | elapsed:    0.5s finished
[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.

[CV] ... C=0.1, total=    0.7s
[CV] C=1.0 ...

[Parallel(n_jobs=-1)]: Done    1 out of    1 | elapsed:    1.0s finished
[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.

[CV] ... C=1.0, total=    1.1s
[CV] C=1.0 ...

[Parallel(n_jobs=-1)]: Done    1 out of    1 | elapsed:    1.0s finished
[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.

[CV] ... C=1.0, total=    1.1s
[CV] C=1.0 ...

[Parallel(n_jobs=-1)]: Done    1 out of    1 | elapsed:    1.2s finished
[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.

[CV] ... C=1.0, total=    1.3s
[CV] C=1.0 ...

```

```

[Parallel(n_jobs=-1)]: Done 1 out of 1 | elapsed: 1.3s finished
[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.

[CV] ... C=1.0, total= 1.4s
[CV] C=1.0 ...

[Parallel(n_jobs=-1)]: Done 1 out of 1 | elapsed: 1.3s finished
[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.

[CV] ... C=1.0, total= 1.4s
[CV] C=10.0 ...

[Parallel(n_jobs=-1)]: Done 1 out of 1 | elapsed: 1.3s finished
[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.

[CV] ... C=10.0, total= 1.4s
[CV] C=10.0 ...

[Parallel(n_jobs=-1)]: Done 1 out of 1 | elapsed: 1.5s finished
[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.

[CV] ... C=10.0, total= 1.6s
[CV] C=10.0 ...

[Parallel(n_jobs=-1)]: Done 1 out of 1 | elapsed: 1.4s finished
[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.

[CV] ... C=10.0, total= 1.5s
[CV] C=10.0 ...

[Parallel(n_jobs=-1)]: Done 1 out of 1 | elapsed: 1.5s finished
[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.

[CV] ... C=10.0, total= 1.6s
[CV] C=10.0 ...

[Parallel(n_jobs=-1)]: Done 1 out of 1 | elapsed: 1.6s finished
[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.

[CV] ... C=10.0, total= 1.7s
[CV] C=100.0 ...

[Parallel(n_jobs=-1)]: Done 1 out of 1 | elapsed: 1.4s finished
[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.

[CV] ... C=100.0, total= 1.5s
[CV] C=100.0 ...

[Parallel(n_jobs=-1)]: Done 1 out of 1 | elapsed: 1.7s finished
[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.

[CV] ... C=100.0, total= 1.8s
[CV] C=100.0 ...

[Parallel(n_jobs=-1)]: Done 1 out of 1 | elapsed: 1.5s finished
[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.

```

```

[CV] ... C=100.0, total= 1.6s
[CV] C=100.0 ...

[Parallel(n_jobs=-1)]: Done 1 out of 1 | elapsed: 1.6s finished
[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.

[CV] ... C=100.0, total= 1.7s
[CV] C=100.0 ...

[Parallel(n_jobs=-1)]: Done 1 out of 1 | elapsed: 1.6s finished
[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.

[CV] ... C=100.0, total= 1.7s
[CV] C=1000.0 ...

[Parallel(n_jobs=-1)]: Done 1 out of 1 | elapsed: 1.4s finished
[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.

[CV] ... C=1000.0, total= 1.5s
[CV] C=1000.0 ...

[Parallel(n_jobs=-1)]: Done 1 out of 1 | elapsed: 1.6s finished
[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.

[CV] ... C=1000.0, total= 1.7s
[CV] C=1000.0 ...

[Parallel(n_jobs=-1)]: Done 1 out of 1 | elapsed: 1.5s finished
[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.

[CV] ... C=1000.0, total= 1.6s
[CV] C=1000.0 ...

[Parallel(n_jobs=-1)]: Done 1 out of 1 | elapsed: 1.6s finished
[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.

[CV] ... C=1000.0, total= 1.7s
[CV] C=1000.0 ...

[Parallel(n_jobs=-1)]: Done 1 out of 1 | elapsed: 1.7s finished
[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.

[CV] ... C=1000.0, total= 1.8s
[CV] C=10000.0 ...

[Parallel(n_jobs=-1)]: Done 1 out of 1 | elapsed: 1.4s finished
[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.

[CV] ... C=10000.0, total= 1.5s
[CV] C=10000.0 ...

[Parallel(n_jobs=-1)]: Done 1 out of 1 | elapsed: 1.7s finished
[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.

[CV] ... C=10000.0, total= 1.8s
[CV] C=10000.0 ...

```

```

[Parallel(n_jobs=-1)]: Done 1 out of 1 | elapsed: 1.6s finished
[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.

[CV] ... C=10000.0, total= 1.7s
[CV] C=10000.0 ...

[Parallel(n_jobs=-1)]: Done 1 out of 1 | elapsed: 1.6s finished
[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.

[CV] ... C=10000.0, total= 1.7s
[CV] C=10000.0 ...

[Parallel(n_jobs=-1)]: Done 1 out of 1 | elapsed: 1.6s finished
[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.
D:\CodeNameSolus\Apps\lib\site-
packages\sklearn\model_selection\_validation.py:536: FitFailedWarning: Estimator
fit failed. The score on this train-test partition for these parameters will be
set to nan. Details:
ZeroDivisionError: float division by zero

FitFailedWarning)
[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.

[CV] ... C=10000.0, total= 1.7s
[CV] C=0 ...
[CV] ... C=0, total= 0.1s
[CV] C=0 ...

D:\CodeNameSolus\Apps\lib\site-
packages\sklearn\model_selection\_validation.py:536: FitFailedWarning: Estimator
fit failed. The score on this train-test partition for these parameters will be
set to nan. Details:
ZeroDivisionError: float division by zero

FitFailedWarning)
[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.

[CV] ... C=0, total= 1.0s
[CV] C=0 ...

D:\CodeNameSolus\Apps\lib\site-
packages\sklearn\model_selection\_validation.py:536: FitFailedWarning: Estimator
fit failed. The score on this train-test partition for these parameters will be
set to nan. Details:
ZeroDivisionError: float division by zero

FitFailedWarning)
[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.

[CV] ... C=0, total= 1.0s
[CV] C=0 ...

```



```
D:\CodeNameSolus\Apps\lib\site-  
packages\sklearn\model_selection\_validation.py:536: FitFailedWarning: Estimator  
fit failed. The score on this train-test partition for these parameters will be  
set to nan. Details:  
ZeroDivisionError: float division by zero
```

```
FitFailedWarning)  
[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.  
[CV] ... C=0, total= 1.0s  
[CV] C=0 ...
```

```
D:\CodeNameSolus\Apps\lib\site-  
packages\sklearn\model_selection\_validation.py:536: FitFailedWarning: Estimator  
fit failed. The score on this train-test partition for these parameters will be  
set to nan. Details:  
ZeroDivisionError: float division by zero
```

```
FitFailedWarning)  
[Parallel(n_jobs=1)]: Done 50 out of 50 | elapsed: 51.7s finished  
[Parallel(n_jobs=-1)]: Using backend ThreadingBackend with 8 concurrent workers.  
[CV] ... C=0, total= 1.0s  
convergence after 603 epochs took 2 seconds  
[Parallel(n_jobs=-1)]: Done 1 out of 1 | elapsed: 1.4s finished  
[Parallel(n_jobs=-1)]: Using backend ThreadingBackend with 8 concurrent workers.  
convergence after 771 epochs took 2 seconds  
[Parallel(n_jobs=-1)]: Done 1 out of 1 | elapsed: 1.9s finished  
[Parallel(n_jobs=-1)]: Using backend ThreadingBackend with 8 concurrent workers.  
convergence after 775 epochs took 2 seconds  
[Parallel(n_jobs=-1)]: Done 1 out of 1 | elapsed: 1.9s finished
```

```
[28]: metrics_cov_LR
```

```
[28]: array([[0.763      , 0.66402041, 0.73722721, 0.76764373, 0.67441391,  
             0.74470428],  
            [0.774      , 0.68956044, 0.75224941, 0.77060721, 0.67941072,  
             0.74793869],  
            [0.7754      , 0.69392205, 0.75449254, 0.77063151, 0.68131285,  
             0.74907413],  
            [0.7728      , 0.67281106, 0.74451597, 0.76628959, 0.66664521,  
             0.74101286],  
            [0.7826      , 0.69075391, 0.7587756 , 0.76820448, 0.67567535,  
             0.74547042]])
```

RF: COVTYPE

```
[29]: metrics_cov_RF = np.zeros((5, 6))

for i in range(5):
    print("\n Trial", i+1)
    # randomly split the data. size of training data will be 5000
    X_train, X_test, Y_train, Y_test = train_test_split(X_covtype, Y_covtype,
    ↪ train_size = 5000)

    # initialize the classifier
    classifier_RF = RandomForestClassifier(n_estimators = 1024, verbose = 0,
    ↪ n_jobs = -1)

    Feature_list = [1, 2, 4, 6, 8, 12]

    parameters = {'max_features': Feature_list}

    search_clf = GridSearchCV(classifier_RF, parameters, cv =
    ↪ StratifiedKFold(n_splits = 5),
                                scoring = ['accuracy', 'roc_auc_ovr', 'f1_micro'],
    ↪ refit = False, verbose = 0)
    match_model = search_clf.fit(X_train, Y_train)

    match_param = match_model.cv_results_['params'][np.argmin(match_model.
    ↪ cv_results_['rank_test_roc_auc_ovr'])]
    classifier_RF.set_params(**match_param)
    classifier_RF.fit(X_train, Y_train)
    Y_pred_train_auc = classifier_RF.predict(X_train)
    Y_pred_test_auc = classifier_RF.predict(X_test)
    metrics_cov_RF[i, 2] = roc_auc_score(Y_train, Y_pred_train_auc)
    metrics_cov_RF[i, 5] = roc_auc_score(Y_test, Y_pred_test_auc)

    match_param = match_model.cv_results_['params'][np.argmin(match_model.
    ↪ cv_results_['rank_test_accuracy'])]
    classifier_RF.set_params(**match_param)
    classifier_RF.fit(X_train, Y_train)
    Y_pred_train_acc = classifier_RF.predict(X_train)
    Y_pred_test_acc = classifier_RF.predict(X_test)
    metrics_cov_RF[i, 0] = accuracy_score(Y_train, Y_pred_train_acc)
    metrics_cov_RF[i, 3] = accuracy_score(Y_test, Y_pred_test_acc)

    match_param = match_model.cv_results_['params'][np.argmin(match_model.
    ↪ cv_results_['rank_test_f1_micro'])]
    classifier_RF.set_params(**match_param)
    classifier_RF.fit(X_train, Y_train)
    Y_pred_train_f1 = classifier_RF.predict(X_train)
```

```

Y_pred_test_f1 = classifier_RF.predict(X_test)
metrics_cov_RF[i, 1] = f1_score(Y_train, Y_pred_train_f1)
metrics_cov_RF[i, 4] = f1_score(Y_test, Y_pred_test_f1)

```

Trial 1

Fitting 5 folds for each of 6 candidates, totalling 30 fits

[CV] max_features=1 ...

[Parallel(n_jobs=1)]: Using backend SequentialBackend with 1 concurrent workers.

[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.

[Parallel(n_jobs=-1)]: Done 25 tasks | elapsed: 1.3s

[Parallel(n_jobs=-1)]: Done 862 tasks | elapsed: 2.2s

[Parallel(n_jobs=-1)]: Done 1009 out of 1024 | elapsed: 2.4s remaining:

0.0s

[Parallel(n_jobs=-1)]: Done 1024 out of 1024 | elapsed: 2.4s finished

[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.

[Parallel(n_jobs=8)]: Done 25 tasks | elapsed: 0.0s

[Parallel(n_jobs=8)]: Done 146 tasks | elapsed: 0.0s

[Parallel(n_jobs=8)]: Done 349 tasks | elapsed: 0.0s

[Parallel(n_jobs=8)]: Done 632 tasks | elapsed: 0.0s

[Parallel(n_jobs=8)]: Done 997 tasks | elapsed: 0.1s

[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed: 0.1s finished

[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.

[Parallel(n_jobs=8)]: Done 25 tasks | elapsed: 0.0s

[Parallel(n_jobs=8)]: Done 146 tasks | elapsed: 0.0s

[Parallel(n_jobs=8)]: Done 349 tasks | elapsed: 0.0s

[Parallel(n_jobs=8)]: Done 632 tasks | elapsed: 0.0s

[Parallel(n_jobs=8)]: Done 997 tasks | elapsed: 0.0s

[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed: 0.1s finished

[CV] ... max_features=1, total= 3.2s

[CV] max_features=1 ...

[Parallel(n_jobs=1)]: Done 1 out of 1 | elapsed: 3.1s remaining: 0.0s

[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.

[Parallel(n_jobs=-1)]: Done 34 tasks | elapsed: 0.0s

[Parallel(n_jobs=-1)]: Done 1024 out of 1024 | elapsed: 1.0s finished

[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.

[Parallel(n_jobs=8)]: Done 25 tasks | elapsed: 0.0s

[Parallel(n_jobs=8)]: Done 146 tasks | elapsed: 0.0s

[Parallel(n_jobs=8)]: Done 349 tasks | elapsed: 0.0s

[Parallel(n_jobs=8)]: Done 632 tasks | elapsed: 0.0s

[Parallel(n_jobs=8)]: Done 997 tasks | elapsed: 0.1s

[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed: 0.1s finished

[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.

[Parallel(n_jobs=8)]: Done 25 tasks | elapsed: 0.0s

[Parallel(n_jobs=8)]: Done 146 tasks | elapsed: 0.0s

```

[Parallel(n_jobs=8)]: Done 349 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks      | elapsed:    0.1s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.1s finished

[CV] ... max_features=1, total=    1.8s
[CV] max_features=1 ...

[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.
[Parallel(n_jobs=-1)]: Done  34 tasks      | elapsed:    0.0s
[Parallel(n_jobs=-1)]: Done 1024 out of 1024 | elapsed:    1.0s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done  25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.1s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done  25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks      | elapsed:    0.1s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.1s finished

[CV] ... max_features=1, total=    1.8s
[CV] max_features=1 ...

[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.
[Parallel(n_jobs=-1)]: Done  34 tasks      | elapsed:    0.0s
[Parallel(n_jobs=-1)]: Done 1024 out of 1024 | elapsed:    1.0s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done  25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.1s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done  25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.0s finished

[CV] ... max_features=1, total=    1.8s
[CV] max_features=1 ...

[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.

```

```

[Parallel(n_jobs=-1)]: Done 34 tasks      | elapsed:    0.0s
[Parallel(n_jobs=-1)]: Done 1024 out of 1024 | elapsed:    1.0s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.0s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks     | elapsed:    0.1s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.1s finished

[CV] ... max_features=1, total=    1.8s
[CV] max_features=2 ...

[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.
[Parallel(n_jobs=-1)]: Done 34 tasks      | elapsed:    0.0s
[Parallel(n_jobs=-1)]: Done 1024 out of 1024 | elapsed:    1.0s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks     | elapsed:    0.1s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.1s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks     | elapsed:    0.1s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.1s finished

[CV] ... max_features=2, total=    1.9s
[CV] max_features=2 ...

[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.
[Parallel(n_jobs=-1)]: Done 34 tasks      | elapsed:    0.0s
[Parallel(n_jobs=-1)]: Done 1024 out of 1024 | elapsed:    1.0s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks     | elapsed:    0.1s

```

```

[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.1s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.1s finished

[CV] ... max_features=2, total=    1.8s
[CV] max_features=2 ...

[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.
[Parallel(n_jobs=-1)]: Done 34 tasks      | elapsed:    0.0s
[Parallel(n_jobs=-1)]: Done 1024 out of 1024 | elapsed:    1.0s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.0s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks     | elapsed:    0.1s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.1s finished

[CV] ... max_features=2, total=    1.8s
[CV] max_features=2 ...

[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.
[Parallel(n_jobs=-1)]: Done 34 tasks      | elapsed:    0.0s
[Parallel(n_jobs=-1)]: Done 1024 out of 1024 | elapsed:    1.0s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks     | elapsed:    0.1s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.1s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks     | elapsed:    0.1s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.1s finished

```

```

[CV] ... max_features=2, total=    1.9s
[CV] max_features=2 ...

[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.
[Parallel(n_jobs=-1)]: Done   34 tasks      | elapsed:    0.0s
[Parallel(n_jobs=-1)]: Done 1024 out of 1024 | elapsed:    1.0s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done   25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done  146 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done  349 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done  632 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done  997 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.0s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done   25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done  146 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done  349 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done  632 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done  997 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.1s finished

[CV] ... max_features=2, total=    1.8s
[CV] max_features=4 ...

[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.
[Parallel(n_jobs=-1)]: Done   34 tasks      | elapsed:    0.0s
[Parallel(n_jobs=-1)]: Done 1024 out of 1024 | elapsed:    1.1s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done   25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done  146 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done  349 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done  632 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done  997 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.0s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done   25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done  146 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done  349 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done  632 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done  997 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.1s finished

[CV] ... max_features=4, total=    1.9s
[CV] max_features=4 ...

[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.
[Parallel(n_jobs=-1)]: Done   34 tasks      | elapsed:    0.0s
[Parallel(n_jobs=-1)]: Done 1024 out of 1024 | elapsed:    1.1s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done   25 tasks      | elapsed:    0.0s

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[Parallel(n_jobs=8)]: Done 146 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.0s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks       | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks      | elapsed:    0.1s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.1s finished

[CV] ... max_features=4, total=    1.9s
[CV] max_features=4 ...

[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.
[Parallel(n_jobs=-1)]: Done 34 tasks      | elapsed:    0.0s
[Parallel(n_jobs=-1)]: Done 1024 out of 1024 | elapsed:    1.1s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks       | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks      | elapsed:    0.1s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.1s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks       | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.1s finished

[CV] ... max_features=4, total=    2.0s
[CV] max_features=4 ...

[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.
[Parallel(n_jobs=-1)]: Done 34 tasks      | elapsed:    0.0s
[Parallel(n_jobs=-1)]: Done 1024 out of 1024 | elapsed:    1.1s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks       | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.0s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks       | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks      | elapsed:    0.0s

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[Parallel(n_jobs=8)]: Done 349 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.0s finished

[CV] ... max_features=4, total=    1.9s
[CV] max_features=4 ...

[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.
[Parallel(n_jobs=-1)]: Done  34 tasks      | elapsed:    0.0s
[Parallel(n_jobs=-1)]: Done 1024 out of 1024 | elapsed:    1.1s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done  25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.1s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done  25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.1s finished

[CV] ... max_features=4, total=    1.9s
[CV] max_features=6 ...

[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.
[Parallel(n_jobs=-1)]: Done  34 tasks      | elapsed:    0.0s
[Parallel(n_jobs=-1)]: Done 1024 out of 1024 | elapsed:    1.2s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done  25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.1s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done  25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.0s finished

[CV] ... max_features=6, total=    2.0s
[CV] max_features=6 ...

[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.

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[Parallel(n_jobs=-1)]: Done 34 tasks      | elapsed:    0.0s
[Parallel(n_jobs=-1)]: Done 1024 out of 1024 | elapsed:    1.2s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.0s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.0s finished

[CV] ... max_features=6, total=    2.1s
[CV] max_features=6 ...

[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.
[Parallel(n_jobs=-1)]: Done 34 tasks      | elapsed:    0.0s
[Parallel(n_jobs=-1)]: Done 1024 out of 1024 | elapsed:    1.2s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.1s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.0s finished

[CV] ... max_features=6, total=    2.0s
[CV] max_features=6 ...

[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.
[Parallel(n_jobs=-1)]: Done 34 tasks      | elapsed:    0.0s
[Parallel(n_jobs=-1)]: Done 1024 out of 1024 | elapsed:    1.2s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks     | elapsed:    0.0s

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[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.0s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.1s finished

[CV] ... max_features=6, total=    2.0s
[CV] max_features=6 ...

[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.
[Parallel(n_jobs=-1)]: Done 34 tasks      | elapsed:    0.0s
[Parallel(n_jobs=-1)]: Done 1024 out of 1024 | elapsed:    1.2s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.0s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.1s finished

[CV] ... max_features=6, total=    2.0s
[CV] max_features=8 ...

[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.
[Parallel(n_jobs=-1)]: Done 34 tasks      | elapsed:    0.0s
[Parallel(n_jobs=-1)]: Done 1024 out of 1024 | elapsed:    1.3s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.0s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.0s finished

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[CV] ... max_features=8, total= 2.2s
[CV] max_features=8 ...

[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.
[Parallel(n_jobs=-1)]: Done 34 tasks | elapsed: 0.0s
[Parallel(n_jobs=-1)]: Done 1024 out of 1024 | elapsed: 1.3s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks | elapsed: 0.0s
[Parallel(n_jobs=8)]: Done 146 tasks | elapsed: 0.0s
[Parallel(n_jobs=8)]: Done 349 tasks | elapsed: 0.0s
[Parallel(n_jobs=8)]: Done 632 tasks | elapsed: 0.0s
[Parallel(n_jobs=8)]: Done 997 tasks | elapsed: 0.0s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed: 0.0s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks | elapsed: 0.0s
[Parallel(n_jobs=8)]: Done 146 tasks | elapsed: 0.0s
[Parallel(n_jobs=8)]: Done 349 tasks | elapsed: 0.0s
[Parallel(n_jobs=8)]: Done 632 tasks | elapsed: 0.0s
[Parallel(n_jobs=8)]: Done 997 tasks | elapsed: 0.0s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed: 0.1s finished

[CV] ... max_features=8, total= 2.2s
[CV] max_features=8 ...

[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.
[Parallel(n_jobs=-1)]: Done 34 tasks | elapsed: 0.0s
[Parallel(n_jobs=-1)]: Done 1024 out of 1024 | elapsed: 1.3s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks | elapsed: 0.0s
[Parallel(n_jobs=8)]: Done 146 tasks | elapsed: 0.0s
[Parallel(n_jobs=8)]: Done 349 tasks | elapsed: 0.0s
[Parallel(n_jobs=8)]: Done 632 tasks | elapsed: 0.0s
[Parallel(n_jobs=8)]: Done 997 tasks | elapsed: 0.0s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed: 0.0s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks | elapsed: 0.0s
[Parallel(n_jobs=8)]: Done 146 tasks | elapsed: 0.0s
[Parallel(n_jobs=8)]: Done 349 tasks | elapsed: 0.0s
[Parallel(n_jobs=8)]: Done 632 tasks | elapsed: 0.0s
[Parallel(n_jobs=8)]: Done 997 tasks | elapsed: 0.1s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed: 0.1s finished

[CV] ... max_features=8, total= 2.1s
[CV] max_features=8 ...

[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.
[Parallel(n_jobs=-1)]: Done 34 tasks | elapsed: 0.0s
[Parallel(n_jobs=-1)]: Done 1024 out of 1024 | elapsed: 1.3s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks | elapsed: 0.0s

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[Parallel(n_jobs=8)]: Done 146 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.1s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks       | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks      | elapsed:    0.1s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.1s finished

[CV] ... max_features=8, total=    2.1s
[CV] max_features=8 ...

[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.
[Parallel(n_jobs=-1)]: Done 34 tasks      | elapsed:    0.0s
[Parallel(n_jobs=-1)]: Done 1024 out of 1024 | elapsed:    1.3s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks       | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks      | elapsed:    0.1s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.1s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks       | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.0s finished

[CV] ... max_features=8, total=    2.1s
[CV] max_features=12 ...

[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.
[Parallel(n_jobs=-1)]: Done 34 tasks      | elapsed:    0.0s
[Parallel(n_jobs=-1)]: Done 1024 out of 1024 | elapsed:    1.5s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks       | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.0s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks       | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks      | elapsed:    0.0s

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[Parallel(n_jobs=8)]: Done 349 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.1s finished

[CV] ... max_features=12, total=    2.3s
[CV] max_features=12 ...

[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.
[Parallel(n_jobs=-1)]: Done  34 tasks      | elapsed:    0.0s
[Parallel(n_jobs=-1)]: Done 1024 out of 1024 | elapsed:    1.6s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done  25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks      | elapsed:    0.1s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.1s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done  25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.0s finished

[CV] ... max_features=12, total=    2.4s
[CV] max_features=12 ...

[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.
[Parallel(n_jobs=-1)]: Done  34 tasks      | elapsed:    0.0s
[Parallel(n_jobs=-1)]: Done 1024 out of 1024 | elapsed:    1.5s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done  25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.1s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done  25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.0s finished

[CV] ... max_features=12, total=    2.3s
[CV] max_features=12 ...

[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.

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[Parallel(n_jobs=-1)]: Done 34 tasks      | elapsed:    0.0s
[Parallel(n_jobs=-1)]: Done 1024 out of 1024 | elapsed:    1.6s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.1s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks     | elapsed:    0.1s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.1s finished

[CV] ... max_features=12, total=    2.4s
[CV] max_features=12 ...

[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.
[Parallel(n_jobs=-1)]: Done 34 tasks      | elapsed:    0.0s
[Parallel(n_jobs=-1)]: Done 1024 out of 1024 | elapsed:    1.6s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.1s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks     | elapsed:    0.1s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.1s finished

[CV] ... max_features=12, total=    2.4s

[Parallel(n_jobs=1)]: Done 30 out of 30 | elapsed: 1.0min finished
[Parallel(n_jobs=-1)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=-1)]: Done 25 tasks      | elapsed:    0.0s

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[Parallel(n_jobs=-1)]: Done 146 tasks | elapsed: 0.3s
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[Parallel(n_jobs=-1)]: Done 349 tasks | elapsed: 0.7s

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[Parallel(n_jobs=-1)]: Done 632 tasks | elapsed: 1.4s
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[Parallel(n_jobs=-1)]: Done 997 tasks      | elapsed:    2.2s
[Parallel(n_jobs=-1)]: Done 1024 out of 1024 | elapsed:    2.3s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks     | elapsed:    0.1s
[Parallel(n_jobs=8)]: Done 997 tasks     | elapsed:    0.2s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.2s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks      | elapsed:    0.3s
[Parallel(n_jobs=8)]: Done 146 tasks     | elapsed:    2.0s
[Parallel(n_jobs=8)]: Done 349 tasks     | elapsed:    5.1s
[Parallel(n_jobs=8)]: Done 632 tasks     | elapsed:    9.4s
[Parallel(n_jobs=8)]: Done 997 tasks     | elapsed:   14.9s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:   15.4s finished
[Parallel(n_jobs=-1)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=-1)]: Done 25 tasks      | elapsed:    0.0s

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[Parallel(n_jobs=-1)]: Done 146 tasks | elapsed: 0.2s

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[Parallel(n_jobs=-1)]: Done 349 tasks | elapsed: 0.7s

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[Parallel(n_jobs=-1)]: Done 632 tasks | elapsed: 1.3s

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[Parallel(n_jobs=-1)]: Done 997 tasks | elapsed: 2.2s
[Parallel(n_jobs=-1)]: Done 1024 out of 1024 | elapsed: 2.3s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks | elapsed: 0.0s
[Parallel(n_jobs=8)]: Done 146 tasks | elapsed: 0.0s
[Parallel(n_jobs=8)]: Done 349 tasks | elapsed: 0.1s
[Parallel(n_jobs=8)]: Done 632 tasks | elapsed: 0.2s
[Parallel(n_jobs=8)]: Done 997 tasks | elapsed: 0.3s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed: 0.3s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks | elapsed: 0.4s
[Parallel(n_jobs=8)]: Done 146 tasks | elapsed: 2.3s
[Parallel(n_jobs=8)]: Done 349 tasks | elapsed: 5.4s
[Parallel(n_jobs=8)]: Done 632 tasks | elapsed: 9.7s
[Parallel(n_jobs=8)]: Done 997 tasks | elapsed: 15.2s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed: 15.6s finished
[Parallel(n_jobs=-1)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=-1)]: Done 25 tasks | elapsed: 0.0s

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[Parallel(n_jobs=-1)]: Done 146 tasks | elapsed: 0.2s

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[Parallel(n_jobs=-1)]: Done 349 tasks      | elapsed:    0.6s

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[Parallel(n_jobs=-1)]: Done 632 tasks | elapsed: 1.2s

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```
[Parallel(n_jobs=-1)]: Done 997 tasks      | elapsed:    2.1s
[Parallel(n_jobs=-1)]: Done 1024 out of 1024 | elapsed:    2.2s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks       | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks      | elapsed:    0.0s
```

building tree 1024 of 1024

```
[Parallel(n_jobs=8)]: Done 349 tasks      | elapsed:    0.1s
[Parallel(n_jobs=8)]: Done 632 tasks      | elapsed:    0.2s
[Parallel(n_jobs=8)]: Done 997 tasks      | elapsed:    0.3s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.3s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks       | elapsed:    0.3s
[Parallel(n_jobs=8)]: Done 146 tasks      | elapsed:    2.1s
[Parallel(n_jobs=8)]: Done 349 tasks      | elapsed:    5.1s
[Parallel(n_jobs=8)]: Done 632 tasks      | elapsed:    9.4s
[Parallel(n_jobs=8)]: Done 997 tasks      | elapsed:   15.3s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:   15.8s finished
```

Trial 2

Fitting 5 folds for each of 6 candidates, totalling 30 fits

```
[CV] max_features=1 ...
```

```
[Parallel(n_jobs=1)]: Using backend SequentialBackend with 1 concurrent workers.
```

```

[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.
[Parallel(n_jobs=-1)]: Done 34 tasks      | elapsed:    0.0s
[Parallel(n_jobs=-1)]: Done 1024 out of 1024 | elapsed:    1.1s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks     | elapsed:    0.1s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.1s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks     | elapsed:    0.1s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.1s finished

[CV] ... max_features=1, total=    1.9s
[CV] max_features=1 ...

[Parallel(n_jobs=1)]: Done 1 out of 1 | elapsed:    1.8s remaining:    0.0s
[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.
[Parallel(n_jobs=-1)]: Done 34 tasks      | elapsed:    0.0s
[Parallel(n_jobs=-1)]: Done 1024 out of 1024 | elapsed:    1.1s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks     | elapsed:    0.1s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.1s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks     | elapsed:    0.1s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.1s finished

[CV] ... max_features=1, total=    2.0s
[CV] max_features=1 ...

[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.
[Parallel(n_jobs=-1)]: Done 34 tasks      | elapsed:    0.0s
[Parallel(n_jobs=-1)]: Done 1024 out of 1024 | elapsed:    1.3s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks     | elapsed:    0.0s

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[Parallel(n_jobs=8)]: Done 632 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks      | elapsed:    0.1s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.1s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks       | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.0s finished

[CV] ... max_features=1, total= 2.2s
[CV] max_features=1 ...

[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.
[Parallel(n_jobs=-1)]: Done 34 tasks      | elapsed:    0.0s
[Parallel(n_jobs=-1)]: Done 1024 out of 1024 | elapsed:    1.1s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks       | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks      | elapsed:    0.1s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.1s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks       | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks      | elapsed:    0.1s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.1s finished

[CV] ... max_features=1, total= 2.0s
[CV] max_features=1 ...

[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.
[Parallel(n_jobs=-1)]: Done 34 tasks      | elapsed:    0.0s
[Parallel(n_jobs=-1)]: Done 1024 out of 1024 | elapsed:    1.2s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks       | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks      | elapsed:    0.1s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.1s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks       | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks      | elapsed:    0.0s

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[Parallel(n_jobs=8)]: Done 997 tasks      | elapsed:    0.1s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.1s finished

[CV] ... max_features=1, total=    2.0s
[CV] max_features=2 ...

[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.
[Parallel(n_jobs=-1)]: Done   34 tasks      | elapsed:    0.0s
[Parallel(n_jobs=-1)]: Done 1024 out of 1024 | elapsed:    1.1s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done   25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done  146 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done  349 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done  632 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done  997 tasks      | elapsed:    0.1s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.1s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done   25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done  146 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done  349 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done  632 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done  997 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.0s finished

[CV] ... max_features=2, total=    2.0s
[CV] max_features=2 ...

[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.
[Parallel(n_jobs=-1)]: Done   34 tasks      | elapsed:    0.0s
[Parallel(n_jobs=-1)]: Done 1024 out of 1024 | elapsed:    1.0s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done   25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done  146 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done  349 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done  632 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done  997 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.1s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done   25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done  146 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done  349 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done  632 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done  997 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.1s finished

[CV] ... max_features=2, total=    1.8s
[CV] max_features=2 ...

[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.
[Parallel(n_jobs=-1)]: Done   34 tasks      | elapsed:    0.0s
[Parallel(n_jobs=-1)]: Done 1024 out of 1024 | elapsed:    1.0s finished

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[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.0s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks     | elapsed:    0.1s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.1s finished

[CV] ... max_features=2, total=    1.9s
[CV] max_features=2 ...

[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.
[Parallel(n_jobs=-1)]: Done 34 tasks      | elapsed:    0.0s
[Parallel(n_jobs=-1)]: Done 1024 out of 1024 | elapsed:    1.0s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.0s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.0s finished

[CV] ... max_features=2, total=    1.9s
[CV] max_features=2 ...

[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.
[Parallel(n_jobs=-1)]: Done 34 tasks      | elapsed:    0.0s
[Parallel(n_jobs=-1)]: Done 1024 out of 1024 | elapsed:    1.1s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.0s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.

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[Parallel(n_jobs=8)]: Done 25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks     | elapsed:    0.1s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.1s finished

[CV] ... max_features=2, total=    1.9s
[CV] max_features=4 ...

[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.
[Parallel(n_jobs=-1)]: Done 34 tasks     | elapsed:    0.0s
[Parallel(n_jobs=-1)]: Done 1024 out of 1024 | elapsed:    1.1s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks     | elapsed:    0.1s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.1s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.0s finished

[CV] ... max_features=4, total=    1.9s
[CV] max_features=4 ...

[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.
[Parallel(n_jobs=-1)]: Done 34 tasks     | elapsed:    0.0s
[Parallel(n_jobs=-1)]: Done 1024 out of 1024 | elapsed:    1.1s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.0s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.0s finished

[CV] ... max_features=4, total=    1.9s

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[CV] max_features=4 ...

[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.
[Parallel(n_jobs=-1)]: Done 34 tasks      | elapsed:    0.0s
[Parallel(n_jobs=-1)]: Done 1024 out of 1024 | elapsed:    1.1s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.0s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks     | elapsed:    0.1s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.1s finished

[CV] ... max_features=4, total=    2.0s
[CV] max_features=4 ...

[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.
[Parallel(n_jobs=-1)]: Done 34 tasks      | elapsed:    0.0s
[Parallel(n_jobs=-1)]: Done 1024 out of 1024 | elapsed:    1.2s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.1s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.1s finished

[CV] ... max_features=4, total=    2.0s
[CV] max_features=4 ...

[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.
[Parallel(n_jobs=-1)]: Done 34 tasks      | elapsed:    0.0s
[Parallel(n_jobs=-1)]: Done 1024 out of 1024 | elapsed:    1.1s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks     | elapsed:    0.0s

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[Parallel(n_jobs=8)]: Done 349 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.0s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks       | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.1s finished

[CV] ... max_features=4, total=    1.9s
[CV] max_features=6 ...

[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.
[Parallel(n_jobs=-1)]: Done 34 tasks      | elapsed:    0.0s
[Parallel(n_jobs=-1)]: Done 1024 out of 1024 | elapsed:    1.4s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks       | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks      | elapsed:    0.1s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.1s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks       | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.0s finished

[CV] ... max_features=6, total=    2.3s
[CV] max_features=6 ...

[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.
[Parallel(n_jobs=-1)]: Done 34 tasks      | elapsed:    0.0s
[Parallel(n_jobs=-1)]: Done 1024 out of 1024 | elapsed:    1.1s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks       | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.0s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks       | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks      | elapsed:    0.0s

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[Parallel(n_jobs=8)]: Done 632 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.0s finished

[CV] ... max_features=6, total=    1.9s
[CV] max_features=6 ...

[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.
[Parallel(n_jobs=-1)]: Done  34 tasks      | elapsed:    0.0s
[Parallel(n_jobs=-1)]: Done 1024 out of 1024 | elapsed:    1.1s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done  25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.0s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done  25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.0s finished

[CV] ... max_features=6, total=    2.0s
[CV] max_features=6 ...

[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.
[Parallel(n_jobs=-1)]: Done  34 tasks      | elapsed:    0.0s
[Parallel(n_jobs=-1)]: Done 1024 out of 1024 | elapsed:    1.2s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done  25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.1s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done  25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.1s finished

[CV] ... max_features=6, total=    2.0s
[CV] max_features=6 ...

[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.
[Parallel(n_jobs=-1)]: Done  34 tasks      | elapsed:    0.0s

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[Parallel(n_jobs=-1)]: Done 1024 out of 1024 | elapsed:    1.3s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.1s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks     | elapsed:    0.1s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.1s finished

[CV] ... max_features=6, total=    2.1s
[CV] max_features=8 ...

[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.
[Parallel(n_jobs=-1)]: Done 34 tasks      | elapsed:    0.0s
[Parallel(n_jobs=-1)]: Done 1024 out of 1024 | elapsed:    1.5s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks     | elapsed:    0.1s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.1s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks     | elapsed:    0.1s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.1s finished

[CV] ... max_features=8, total=    2.3s
[CV] max_features=8 ...

[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.
[Parallel(n_jobs=-1)]: Done 34 tasks      | elapsed:    0.0s
[Parallel(n_jobs=-1)]: Done 1024 out of 1024 | elapsed:    1.4s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks     | elapsed:    0.1s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.1s finished

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[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks     | elapsed:    0.1s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.1s finished

[CV] ... max_features=8, total=    2.3s
[CV] max_features=8 ...

[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.
[Parallel(n_jobs=-1)]: Done 34 tasks     | elapsed:    0.0s
[Parallel(n_jobs=-1)]: Done 1024 out of 1024 | elapsed:    1.5s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks     | elapsed:    0.1s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.1s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.0s finished

[CV] ... max_features=8, total=    2.3s
[CV] max_features=8 ...

[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.
[Parallel(n_jobs=-1)]: Done 34 tasks     | elapsed:    0.0s
[Parallel(n_jobs=-1)]: Done 1024 out of 1024 | elapsed:    1.4s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks     | elapsed:    0.1s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.1s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.0s finished

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[CV] ... max_features=8, total= 2.2s
[CV] max_features=8 ...

[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.
[Parallel(n_jobs=-1)]: Done 34 tasks | elapsed: 0.0s
[Parallel(n_jobs=-1)]: Done 1024 out of 1024 | elapsed: 1.3s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks | elapsed: 0.0s
[Parallel(n_jobs=8)]: Done 146 tasks | elapsed: 0.0s
[Parallel(n_jobs=8)]: Done 349 tasks | elapsed: 0.0s
[Parallel(n_jobs=8)]: Done 632 tasks | elapsed: 0.0s
[Parallel(n_jobs=8)]: Done 997 tasks | elapsed: 0.0s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed: 0.0s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks | elapsed: 0.0s
[Parallel(n_jobs=8)]: Done 146 tasks | elapsed: 0.0s
[Parallel(n_jobs=8)]: Done 349 tasks | elapsed: 0.0s
[Parallel(n_jobs=8)]: Done 632 tasks | elapsed: 0.0s
[Parallel(n_jobs=8)]: Done 997 tasks | elapsed: 0.1s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed: 0.1s finished

[CV] ... max_features=8, total= 2.2s
[CV] max_features=12 ...

[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.
[Parallel(n_jobs=-1)]: Done 34 tasks | elapsed: 0.0s
[Parallel(n_jobs=-1)]: Done 1024 out of 1024 | elapsed: 1.5s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks | elapsed: 0.0s
[Parallel(n_jobs=8)]: Done 146 tasks | elapsed: 0.0s
[Parallel(n_jobs=8)]: Done 349 tasks | elapsed: 0.0s
[Parallel(n_jobs=8)]: Done 632 tasks | elapsed: 0.0s
[Parallel(n_jobs=8)]: Done 997 tasks | elapsed: 0.0s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed: 0.0s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks | elapsed: 0.0s
[Parallel(n_jobs=8)]: Done 146 tasks | elapsed: 0.0s
[Parallel(n_jobs=8)]: Done 349 tasks | elapsed: 0.0s
[Parallel(n_jobs=8)]: Done 632 tasks | elapsed: 0.0s
[Parallel(n_jobs=8)]: Done 997 tasks | elapsed: 0.0s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed: 0.0s finished

[CV] ... max_features=12, total= 2.3s
[CV] max_features=12 ...

[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.
[Parallel(n_jobs=-1)]: Done 34 tasks | elapsed: 0.0s
[Parallel(n_jobs=-1)]: Done 1024 out of 1024 | elapsed: 1.6s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks | elapsed: 0.0s

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[Parallel(n_jobs=8)]: Done 146 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.0s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks       | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.0s finished

[CV] ... max_features=12, total=    2.4s
[CV] max_features=12 ...

[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.
[Parallel(n_jobs=-1)]: Done 34 tasks      | elapsed:    0.0s
[Parallel(n_jobs=-1)]: Done 1024 out of 1024 | elapsed:    1.5s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks       | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.0s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks       | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.0s finished

[CV] ... max_features=12, total=    2.3s
[CV] max_features=12 ...

[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.
[Parallel(n_jobs=-1)]: Done 34 tasks      | elapsed:    0.0s
[Parallel(n_jobs=-1)]: Done 1024 out of 1024 | elapsed:    1.5s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks       | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.0s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks       | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks      | elapsed:    0.0s

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[Parallel(n_jobs=8)]: Done 349 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.0s finished

[CV] ... max_features=12, total=    2.3s
[CV] max_features=12 ...

[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.
[Parallel(n_jobs=-1)]: Done   34 tasks      | elapsed:    0.0s
[Parallel(n_jobs=-1)]: Done 1024 out of 1024 | elapsed:    1.6s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done   25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done  146 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done  349 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done  632 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done  997 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.0s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done   25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done  146 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done  349 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done  632 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done  997 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.0s finished

[CV] ... max_features=12, total=    2.5s

[Parallel(n_jobs=1)]: Done   30 out of   30 | elapsed:   1.0min finished
[Parallel(n_jobs=-1)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=-1)]: Done   25 tasks      | elapsed:    0.0s

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[Parallel(n_jobs=-1)]: Done 146 tasks | elapsed: 0.2s

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[Parallel(n_jobs=-1)]: Done 349 tasks | elapsed: 0.7s

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[Parallel(n_jobs=-1)]: Done 632 tasks | elapsed: 1.3s
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[Parallel(n_jobs=-1)]: Done 997 tasks      | elapsed:    2.2s
[Parallel(n_jobs=-1)]: Done 1024 out of 1024 | elapsed:    2.2s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks     | elapsed:    0.1s
[Parallel(n_jobs=8)]: Done 997 tasks     | elapsed:    0.2s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.2s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks      | elapsed:    0.3s
[Parallel(n_jobs=8)]: Done 146 tasks     | elapsed:    1.9s
[Parallel(n_jobs=8)]: Done 349 tasks     | elapsed:    4.7s
[Parallel(n_jobs=8)]: Done 632 tasks     | elapsed:    8.6s
[Parallel(n_jobs=8)]: Done 997 tasks     | elapsed:   13.6s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:   14.0s finished
[Parallel(n_jobs=-1)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=-1)]: Done 25 tasks      | elapsed:    0.0s

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[Parallel(n_jobs=-1)]: Done 146 tasks | elapsed: 0.2s

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[Parallel(n_jobs=-1)]: Done 349 tasks | elapsed: 0.7s

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[Parallel(n_jobs=-1)]: Done 632 tasks      | elapsed:    1.3s


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[Parallel(n_jobs=-1)]: Done 997 tasks      | elapsed:    2.2s
[Parallel(n_jobs=-1)]: Done 1024 out of 1024 | elapsed:    2.2s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks     | elapsed:    0.1s
[Parallel(n_jobs=8)]: Done 997 tasks     | elapsed:    0.2s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.2s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks      | elapsed:    0.3s
[Parallel(n_jobs=8)]: Done 146 tasks     | elapsed:    2.0s
[Parallel(n_jobs=8)]: Done 349 tasks     | elapsed:    4.7s
[Parallel(n_jobs=8)]: Done 632 tasks     | elapsed:    8.5s
[Parallel(n_jobs=8)]: Done 997 tasks     | elapsed:   13.5s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:   13.8s finished
[Parallel(n_jobs=-1)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=-1)]: Done 25 tasks      | elapsed:    0.0s

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[Parallel(n_jobs=-1)]: Done 146 tasks | elapsed: 0.2s

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[Parallel(n_jobs=-1)]: Done 349 tasks | elapsed: 0.7s

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[Parallel(n_jobs=-1)]: Done 632 tasks | elapsed: 1.4s

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building tree 802 of 1024
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building tree 902 of 1024

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building tree 996 of 1024
building tree 997 of 1024
building tree 998 of 1024
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building tree 1001 of 1024
building tree 1002 of 1024
building tree 1003 of 1024
building tree 1004 of 1024
building tree 1005 of 1024building tree 1006 of 1024building tree 1007 of 1024

building tree 1008 of 1024
building tree 1009 of 1024
building tree 1010 of 1024
building tree 1011 of 1024
building tree 1012 of 1024
building tree 1013 of 1024
building tree 1014 of 1024building tree 1015 of 1024

building tree 1016 of 1024building tree 1017 of 1024

building tree 1018 of 1024

```

building tree 1019 of 1024
building tree 1020 of 1024
building tree 1021 of 1024
building tree 1022 of 1024building tree 1023 of 1024
building tree 1024 of 1024

```

```

[Parallel(n_jobs=-1)]: Done 997 tasks      | elapsed:    2.2s
[Parallel(n_jobs=-1)]: Done 1024 out of 1024 | elapsed:    2.3s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks     | elapsed:    0.1s
[Parallel(n_jobs=8)]: Done 997 tasks     | elapsed:    0.2s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.2s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks      | elapsed:    0.3s
[Parallel(n_jobs=8)]: Done 146 tasks     | elapsed:    1.9s
[Parallel(n_jobs=8)]: Done 349 tasks     | elapsed:    4.6s
[Parallel(n_jobs=8)]: Done 632 tasks     | elapsed:    8.5s
[Parallel(n_jobs=8)]: Done 997 tasks     | elapsed:   13.5s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:   13.9s finished

```

Trial 3

Fitting 5 folds for each of 6 candidates, totalling 30 fits

```
[CV] max_features=1 ...
```

```

[Parallel(n_jobs=1)]: Using backend SequentialBackend with 1 concurrent workers.
[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.
[Parallel(n_jobs=-1)]: Done 34 tasks      | elapsed:    0.0s
[Parallel(n_jobs=-1)]: Done 1024 out of 1024 | elapsed:    1.1s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks     | elapsed:    0.1s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.1s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks     | elapsed:    0.1s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.1s finished
[Parallel(n_jobs=1)]: Done 1 out of 1 | elapsed:    1.8s remaining:    0.0s
[CV] ... max_features=1, total=    1.9s

```



```

[CV] max_features=1 ...

[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.
[Parallel(n_jobs=-1)]: Done 34 tasks      | elapsed:    0.0s
[Parallel(n_jobs=-1)]: Done 1024 out of 1024 | elapsed:    1.3s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks     | elapsed:    0.1s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.1s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks     | elapsed:    0.1s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.1s finished

[CV] ... max_features=1, total=    2.2s
[CV] max_features=1 ...

[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.
[Parallel(n_jobs=-1)]: Done 34 tasks      | elapsed:    0.0s
[Parallel(n_jobs=-1)]: Done 1024 out of 1024 | elapsed:    1.0s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.0s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.0s finished

[CV] ... max_features=1, total=    1.8s
[CV] max_features=1 ...

[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.
[Parallel(n_jobs=-1)]: Done 34 tasks      | elapsed:    0.0s
[Parallel(n_jobs=-1)]: Done 1024 out of 1024 | elapsed:    1.2s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks     | elapsed:    0.0s

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[Parallel(n_jobs=8)]: Done 349 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks      | elapsed:    0.1s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.1s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks       | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.0s finished

[CV] ... max_features=1, total=    2.0s
[CV] max_features=1 ...

[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.
[Parallel(n_jobs=-1)]: Done 34 tasks      | elapsed:    0.0s
[Parallel(n_jobs=-1)]: Done 1024 out of 1024 | elapsed:    1.1s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks       | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks      | elapsed:    0.1s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.1s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks       | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.0s finished

[CV] ... max_features=1, total=    1.9s
[CV] max_features=2 ...

[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.
[Parallel(n_jobs=-1)]: Done 34 tasks      | elapsed:    0.0s
[Parallel(n_jobs=-1)]: Done 1024 out of 1024 | elapsed:    1.0s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks       | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.1s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks       | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks      | elapsed:    0.0s

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[Parallel(n_jobs=8)]: Done 632 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.0s finished

[CV] ... max_features=2, total=    1.8s
[CV] max_features=2 ...

[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.
[Parallel(n_jobs=-1)]: Done  34 tasks      | elapsed:    0.0s
[Parallel(n_jobs=-1)]: Done 1024 out of 1024 | elapsed:    1.0s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done  25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.0s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done  25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks      | elapsed:    0.1s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.1s finished

[CV] ... max_features=2, total=    1.8s
[CV] max_features=2 ...

[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.
[Parallel(n_jobs=-1)]: Done  34 tasks      | elapsed:    0.0s
[Parallel(n_jobs=-1)]: Done 1024 out of 1024 | elapsed:    1.0s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done  25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.0s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done  25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.1s finished

[CV] ... max_features=2, total=    1.8s
[CV] max_features=2 ...

[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.
[Parallel(n_jobs=-1)]: Done  34 tasks      | elapsed:    0.0s

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```

[Parallel(n_jobs=-1)]: Done 1024 out of 1024 | elapsed:    1.3s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks     | elapsed:    0.1s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.1s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks     | elapsed:    0.1s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.1s finished

[CV] ... max_features=2, total=    2.1s
[CV] max_features=2 ...

[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.
[Parallel(n_jobs=-1)]: Done 34 tasks      | elapsed:    0.0s
[Parallel(n_jobs=-1)]: Done 1024 out of 1024 | elapsed:    1.4s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks     | elapsed:    0.1s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.1s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks     | elapsed:    0.1s
[Parallel(n_jobs=8)]: Done 997 tasks     | elapsed:    0.1s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.1s finished

[CV] ... max_features=2, total=    2.5s
[CV] max_features=4 ...

[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.
[Parallel(n_jobs=-1)]: Done 34 tasks      | elapsed:    0.0s
[Parallel(n_jobs=-1)]: Done 1024 out of 1024 | elapsed:    1.6s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks     | elapsed:    0.1s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.1s finished

```

```

[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks     | elapsed:    0.1s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.1s finished

[CV] ... max_features=4, total=    2.6s
[CV] max_features=4 ...

[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.
[Parallel(n_jobs=-1)]: Done 34 tasks     | elapsed:    0.0s
[Parallel(n_jobs=-1)]: Done 1024 out of 1024 | elapsed:    1.4s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.0s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.1s finished

[CV] ... max_features=4, total=    2.4s
[CV] max_features=4 ...

[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.
[Parallel(n_jobs=-1)]: Done 34 tasks     | elapsed:    0.0s
[Parallel(n_jobs=-1)]: Done 1024 out of 1024 | elapsed:    1.2s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks     | elapsed:    0.1s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.1s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks     | elapsed:    0.1s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.1s finished

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[CV] ... max_features=4, total= 2.0s
[CV] max_features=4 ...

[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.
[Parallel(n_jobs=-1)]: Done 34 tasks | elapsed: 0.0s
[Parallel(n_jobs=-1)]: Done 1024 out of 1024 | elapsed: 1.1s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks | elapsed: 0.0s
[Parallel(n_jobs=8)]: Done 146 tasks | elapsed: 0.0s
[Parallel(n_jobs=8)]: Done 349 tasks | elapsed: 0.0s
[Parallel(n_jobs=8)]: Done 632 tasks | elapsed: 0.0s
[Parallel(n_jobs=8)]: Done 997 tasks | elapsed: 0.1s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed: 0.1s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks | elapsed: 0.0s
[Parallel(n_jobs=8)]: Done 146 tasks | elapsed: 0.0s
[Parallel(n_jobs=8)]: Done 349 tasks | elapsed: 0.0s
[Parallel(n_jobs=8)]: Done 632 tasks | elapsed: 0.0s
[Parallel(n_jobs=8)]: Done 997 tasks | elapsed: 0.0s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed: 0.0s finished

[CV] ... max_features=4, total= 2.0s
[CV] max_features=4 ...

[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.
[Parallel(n_jobs=-1)]: Done 34 tasks | elapsed: 0.0s
[Parallel(n_jobs=-1)]: Done 1024 out of 1024 | elapsed: 1.2s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks | elapsed: 0.0s
[Parallel(n_jobs=8)]: Done 146 tasks | elapsed: 0.0s
[Parallel(n_jobs=8)]: Done 349 tasks | elapsed: 0.0s
[Parallel(n_jobs=8)]: Done 632 tasks | elapsed: 0.0s
[Parallel(n_jobs=8)]: Done 997 tasks | elapsed: 0.1s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed: 0.1s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks | elapsed: 0.0s
[Parallel(n_jobs=8)]: Done 146 tasks | elapsed: 0.0s
[Parallel(n_jobs=8)]: Done 349 tasks | elapsed: 0.0s
[Parallel(n_jobs=8)]: Done 632 tasks | elapsed: 0.0s
[Parallel(n_jobs=8)]: Done 997 tasks | elapsed: 0.1s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed: 0.1s finished

[CV] ... max_features=4, total= 2.0s
[CV] max_features=6 ...

[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.
[Parallel(n_jobs=-1)]: Done 34 tasks | elapsed: 0.0s
[Parallel(n_jobs=-1)]: Done 1024 out of 1024 | elapsed: 1.3s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks | elapsed: 0.0s

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[Parallel(n_jobs=8)]: Done 146 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks      | elapsed:    0.1s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.1s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks       | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.0s finished

[CV] ... max_features=6, total=    2.2s
[CV] max_features=6 ...

[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.
[Parallel(n_jobs=-1)]: Done 34 tasks      | elapsed:    0.0s
[Parallel(n_jobs=-1)]: Done 1024 out of 1024 | elapsed:    1.3s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks       | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.0s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks       | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks      | elapsed:    0.1s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.1s finished

[CV] ... max_features=6, total=    2.1s
[CV] max_features=6 ...

[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.
[Parallel(n_jobs=-1)]: Done 34 tasks      | elapsed:    0.0s
[Parallel(n_jobs=-1)]: Done 1024 out of 1024 | elapsed:    1.3s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks       | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.1s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks       | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks      | elapsed:    0.0s

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[Parallel(n_jobs=8)]: Done 349 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks      | elapsed:    0.1s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.1s finished

[CV] ... max_features=6, total=    2.1s
[CV] max_features=6 ...

[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.
[Parallel(n_jobs=-1)]: Done  34 tasks      | elapsed:    0.0s
[Parallel(n_jobs=-1)]: Done 1024 out of 1024 | elapsed:    1.4s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done  25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks      | elapsed:    0.1s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.1s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done  25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.0s finished

[CV] ... max_features=6, total=    2.2s
[CV] max_features=6 ...

[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.
[Parallel(n_jobs=-1)]: Done  34 tasks      | elapsed:    0.0s
[Parallel(n_jobs=-1)]: Done 1024 out of 1024 | elapsed:    1.2s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done  25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks      | elapsed:    0.1s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.1s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done  25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks      | elapsed:    0.1s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.1s finished

[CV] ... max_features=6, total=    2.1s
[CV] max_features=8 ...

[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.

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[Parallel(n_jobs=-1)]: Done 34 tasks      | elapsed:    0.0s
[Parallel(n_jobs=-1)]: Done 1024 out of 1024 | elapsed:    1.5s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.0s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks     | elapsed:    0.1s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.1s finished

[CV] ... max_features=8, total=    2.3s
[CV] max_features=8 ...

[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.
[Parallel(n_jobs=-1)]: Done 34 tasks      | elapsed:    0.0s
[Parallel(n_jobs=-1)]: Done 1024 out of 1024 | elapsed:    1.4s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks     | elapsed:    0.1s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.1s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.0s finished

[CV] ... max_features=8, total=    2.3s
[CV] max_features=8 ...

[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.
[Parallel(n_jobs=-1)]: Done 34 tasks      | elapsed:    0.0s
[Parallel(n_jobs=-1)]: Done 1024 out of 1024 | elapsed:    1.7s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks     | elapsed:    0.0s

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[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.1s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.0s finished

[CV] ... max_features=8, total=    2.5s
[CV] max_features=8 ...

[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.
[Parallel(n_jobs=-1)]: Done 34 tasks      | elapsed:    0.0s
[Parallel(n_jobs=-1)]: Done 1024 out of 1024 | elapsed:    1.4s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.0s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.0s finished

[CV] ... max_features=8, total=    2.3s
[CV] max_features=8 ...

[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.
[Parallel(n_jobs=-1)]: Done 34 tasks      | elapsed:    0.0s
[Parallel(n_jobs=-1)]: Done 1024 out of 1024 | elapsed:    1.5s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.0s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.1s finished

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[CV] ... max_features=8, total= 2.3s
[CV] max_features=12 ...

[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.
[Parallel(n_jobs=-1)]: Done 34 tasks | elapsed: 0.0s
[Parallel(n_jobs=-1)]: Done 1024 out of 1024 | elapsed: 1.9s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks | elapsed: 0.0s
[Parallel(n_jobs=8)]: Done 146 tasks | elapsed: 0.0s
[Parallel(n_jobs=8)]: Done 349 tasks | elapsed: 0.0s
[Parallel(n_jobs=8)]: Done 632 tasks | elapsed: 0.0s
[Parallel(n_jobs=8)]: Done 997 tasks | elapsed: 0.0s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed: 0.0s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks | elapsed: 0.0s
[Parallel(n_jobs=8)]: Done 146 tasks | elapsed: 0.0s
[Parallel(n_jobs=8)]: Done 349 tasks | elapsed: 0.0s
[Parallel(n_jobs=8)]: Done 632 tasks | elapsed: 0.0s
[Parallel(n_jobs=8)]: Done 997 tasks | elapsed: 0.0s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed: 0.0s finished

[CV] ... max_features=12, total= 2.8s
[CV] max_features=12 ...

[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.
[Parallel(n_jobs=-1)]: Done 34 tasks | elapsed: 0.0s
[Parallel(n_jobs=-1)]: Done 1024 out of 1024 | elapsed: 1.7s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks | elapsed: 0.0s
[Parallel(n_jobs=8)]: Done 146 tasks | elapsed: 0.0s
[Parallel(n_jobs=8)]: Done 349 tasks | elapsed: 0.0s
[Parallel(n_jobs=8)]: Done 632 tasks | elapsed: 0.0s
[Parallel(n_jobs=8)]: Done 997 tasks | elapsed: 0.1s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed: 0.1s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks | elapsed: 0.0s
[Parallel(n_jobs=8)]: Done 146 tasks | elapsed: 0.0s
[Parallel(n_jobs=8)]: Done 349 tasks | elapsed: 0.0s
[Parallel(n_jobs=8)]: Done 632 tasks | elapsed: 0.0s
[Parallel(n_jobs=8)]: Done 997 tasks | elapsed: 0.1s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed: 0.1s finished

[CV] ... max_features=12, total= 2.6s
[CV] max_features=12 ...

[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.
[Parallel(n_jobs=-1)]: Done 34 tasks | elapsed: 0.0s
[Parallel(n_jobs=-1)]: Done 1024 out of 1024 | elapsed: 1.6s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks | elapsed: 0.0s

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[Parallel(n_jobs=8)]: Done 146 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks      | elapsed:    0.1s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.1s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks       | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks      | elapsed:    0.1s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.1s finished

[CV] ... max_features=12, total=    2.5s
[CV] max_features=12 ...

[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.
[Parallel(n_jobs=-1)]: Done 34 tasks      | elapsed:    0.0s
[Parallel(n_jobs=-1)]: Done 896 tasks     | elapsed:    2.0s
[Parallel(n_jobs=-1)]: Done 1024 out of 1024 | elapsed:    2.2s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks       | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks      | elapsed:    0.1s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.1s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks       | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks      | elapsed:    0.1s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.1s finished

[CV] ... max_features=12, total=    3.1s
[CV] max_features=12 ...

[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.
[Parallel(n_jobs=-1)]: Done 34 tasks      | elapsed:    0.0s
[Parallel(n_jobs=-1)]: Done 1024 out of 1024 | elapsed:    2.0s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks       | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks      | elapsed:    0.1s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.1s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks       | elapsed:    0.0s

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[Parallel(n_jobs=8)]: Done 146 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks      | elapsed:    0.1s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.1s finished

[CV] ... max_features=12, total=    2.9s

[Parallel(n_jobs=1)]: Done 30 out of 30 | elapsed: 1.1min finished
[Parallel(n_jobs=-1)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=-1)]: Done 25 tasks      | elapsed:    0.0s

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[Parallel(n_jobs=-1)]: Done 146 tasks | elapsed: 0.3s

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[Parallel(n_jobs=-1)]: Done 349 tasks      | elapsed:    0.8s
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[Parallel(n_jobs=-1)]: Done 632 tasks      | elapsed:    1.6s

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[Parallel(n_jobs=-1)]: Done 997 tasks      | elapsed:    2.7s
[Parallel(n_jobs=-1)]: Done 1024 out of 1024 | elapsed:    2.7s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks     | elapsed:    0.1s
[Parallel(n_jobs=8)]: Done 997 tasks     | elapsed:    0.2s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.2s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.

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[Parallel(n_jobs=8)]: Done 25 tasks      | elapsed:    0.4s
[Parallel(n_jobs=8)]: Done 146 tasks     | elapsed:    2.2s
[Parallel(n_jobs=8)]: Done 349 tasks     | elapsed:    5.3s
[Parallel(n_jobs=8)]: Done 632 tasks     | elapsed:    9.3s
[Parallel(n_jobs=8)]: Done 997 tasks     | elapsed:   14.6s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:   15.1s finished
[Parallel(n_jobs=-1)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=-1)]: Done 25 tasks      | elapsed:    0.0s
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[Parallel(n_jobs=-1)]: Done 146 tasks | elapsed: 0.3s

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[Parallel(n_jobs=-1)]: Done 349 tasks | elapsed: 0.8s

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[Parallel(n_jobs=-1)]: Done 632 tasks | elapsed: 1.5s

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[Parallel(n_jobs=-1)]: Done 997 tasks | elapsed: 2.5s
 [Parallel(n_jobs=-1)]: Done 1024 out of 1024 | elapsed: 2.6s finished
 [Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
 [Parallel(n_jobs=8)]: Done 25 tasks | elapsed: 0.0s
 [Parallel(n_jobs=8)]: Done 146 tasks | elapsed: 0.0s
 [Parallel(n_jobs=8)]: Done 349 tasks | elapsed: 0.0s
 [Parallel(n_jobs=8)]: Done 632 tasks | elapsed: 0.1s
 [Parallel(n_jobs=8)]: Done 997 tasks | elapsed: 0.3s
 [Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed: 0.3s finished
 [Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
 [Parallel(n_jobs=8)]: Done 25 tasks | elapsed: 0.5s
 [Parallel(n_jobs=8)]: Done 146 tasks | elapsed: 2.6s
 [Parallel(n_jobs=8)]: Done 349 tasks | elapsed: 6.0s


```
[Parallel(n_jobs=8)]: Done 632 tasks      | elapsed:   10.5s
[Parallel(n_jobs=8)]: Done 997 tasks      | elapsed:   15.8s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:   16.2s finished
[Parallel(n_jobs=-1)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=-1)]: Done 25 tasks      | elapsed:    0.0s
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[Parallel(n_jobs=-1)]: Done 146 tasks | elapsed: 0.3s

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[Parallel(n_jobs=-1)]: Done 349 tasks | elapsed: 0.7s
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[Parallel(n_jobs=-1)]: Done 632 tasks      | elapsed:    1.4s

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[Parallel(n_jobs=-1)]: Done 997 tasks      | elapsed:    2.3s
[Parallel(n_jobs=-1)]: Done 1024 out of 1024 | elapsed:    2.4s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks     | elapsed:    0.0s

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[Parallel(n_jobs=8)]: Done 632 tasks     | elapsed:    0.1s
[Parallel(n_jobs=8)]: Done 997 tasks     | elapsed:    0.2s

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[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.2s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks      | elapsed:    0.3s
[Parallel(n_jobs=8)]: Done 146 tasks     | elapsed:    2.1s
[Parallel(n_jobs=8)]: Done 349 tasks     | elapsed:    5.0s
[Parallel(n_jobs=8)]: Done 632 tasks     | elapsed:    9.1s
[Parallel(n_jobs=8)]: Done 997 tasks     | elapsed:   14.7s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:   15.1s finished

```

Trial 4

Fitting 5 folds for each of 6 candidates, totalling 30 fits

```
[CV] max_features=1 ...
```

```

[Parallel(n_jobs=1)]: Using backend SequentialBackend with 1 concurrent workers.
[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.
[Parallel(n_jobs=-1)]: Done 34 tasks      | elapsed:    0.0s
[Parallel(n_jobs=-1)]: Done 1024 out of 1024 | elapsed:    1.1s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks     | elapsed:    0.1s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.1s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks     | elapsed:    0.1s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.1s finished

```

```
[CV] ... max_features=1, total= 2.0s
```

```
[CV] max_features=1 ...
```

```

[Parallel(n_jobs=1)]: Done 1 out of 1 | elapsed: 1.9s remaining: 0.0s
[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.
[Parallel(n_jobs=-1)]: Done 34 tasks      | elapsed:    0.0s
[Parallel(n_jobs=-1)]: Done 1024 out of 1024 | elapsed:    1.1s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks     | elapsed:    0.1s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.1s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks     | elapsed:    0.0s

```

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[Parallel(n_jobs=8)]: Done 349 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks      | elapsed:    0.1s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.1s finished

[CV] ... max_features=1, total=    1.9s
[CV] max_features=1 ...

[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.
[Parallel(n_jobs=-1)]: Done  34 tasks      | elapsed:    0.0s
[Parallel(n_jobs=-1)]: Done 1024 out of 1024 | elapsed:    1.1s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done  25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks      | elapsed:    0.1s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.1s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done  25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks      | elapsed:    0.1s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.1s finished

[CV] ... max_features=1, total=    1.9s
[CV] max_features=1 ...

[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.
[Parallel(n_jobs=-1)]: Done  34 tasks      | elapsed:    0.0s
[Parallel(n_jobs=-1)]: Done 1024 out of 1024 | elapsed:    1.1s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done  25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks      | elapsed:    0.1s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.1s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done  25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks      | elapsed:    0.1s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.1s finished

[CV] ... max_features=1, total=    2.0s
[CV] max_features=1 ...

[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.

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[Parallel(n_jobs=-1)]: Done 34 tasks      | elapsed:    0.0s
[Parallel(n_jobs=-1)]: Done 1024 out of 1024 | elapsed:    1.1s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks     | elapsed:    0.1s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.1s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks     | elapsed:    0.1s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.1s finished

[CV] ... max_features=1, total=    2.0s
[CV] max_features=2 ...

[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.
[Parallel(n_jobs=-1)]: Done 34 tasks      | elapsed:    0.0s
[Parallel(n_jobs=-1)]: Done 1024 out of 1024 | elapsed:    1.1s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks     | elapsed:    0.1s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.1s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks     | elapsed:    0.1s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.1s finished

[CV] ... max_features=2, total=    2.0s
[CV] max_features=2 ...

[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.
[Parallel(n_jobs=-1)]: Done 34 tasks      | elapsed:    0.0s
[Parallel(n_jobs=-1)]: Done 1024 out of 1024 | elapsed:    1.2s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks     | elapsed:    0.1s

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[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.1s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks     | elapsed:    0.1s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.1s finished

[CV] ... max_features=2, total=    2.0s
[CV] max_features=2 ...

[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.
[Parallel(n_jobs=-1)]: Done 34 tasks      | elapsed:    0.0s
[Parallel(n_jobs=-1)]: Done 1024 out of 1024 | elapsed:    1.1s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks     | elapsed:    0.1s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.1s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks     | elapsed:    0.1s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.1s finished

[CV] ... max_features=2, total=    2.0s
[CV] max_features=2 ...

[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.
[Parallel(n_jobs=-1)]: Done 34 tasks      | elapsed:    0.0s
[Parallel(n_jobs=-1)]: Done 1024 out of 1024 | elapsed:    1.1s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.1s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.1s finished

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[CV] ... max_features=2, total=    1.9s
[CV] max_features=2 ...

[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.
[Parallel(n_jobs=-1)]: Done  34 tasks      | elapsed:    0.0s
[Parallel(n_jobs=-1)]: Done 1024 out of 1024 | elapsed:    1.1s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done  25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.0s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done  25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks      | elapsed:    0.1s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.1s finished

[CV] ... max_features=2, total=    1.9s
[CV] max_features=4 ...

[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.
[Parallel(n_jobs=-1)]: Done  34 tasks      | elapsed:    0.0s
[Parallel(n_jobs=-1)]: Done 1024 out of 1024 | elapsed:    1.1s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done  25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks      | elapsed:    0.1s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.1s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done  25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.1s finished

[CV] ... max_features=4, total=    2.0s
[CV] max_features=4 ...

[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.
[Parallel(n_jobs=-1)]: Done  34 tasks      | elapsed:    0.0s
[Parallel(n_jobs=-1)]: Done 1024 out of 1024 | elapsed:    1.1s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done  25 tasks      | elapsed:    0.0s

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[Parallel(n_jobs=8)]: Done 146 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks      | elapsed:    0.1s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.1s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks       | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.1s finished

[CV] ... max_features=4, total=    2.0s
[CV] max_features=4 ...

[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.
[Parallel(n_jobs=-1)]: Done 34 tasks      | elapsed:    0.0s
[Parallel(n_jobs=-1)]: Done 1024 out of 1024 | elapsed:    1.1s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks       | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.1s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks       | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks      | elapsed:    0.1s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.1s finished

[CV] ... max_features=4, total=    2.0s
[CV] max_features=4 ...

[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.
[Parallel(n_jobs=-1)]: Done 34 tasks      | elapsed:    0.0s
[Parallel(n_jobs=-1)]: Done 1024 out of 1024 | elapsed:    1.1s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks       | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.0s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks       | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks      | elapsed:    0.0s

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[Parallel(n_jobs=8)]: Done 349 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.1s finished

[CV] ... max_features=4, total=    2.0s
[CV] max_features=4 ...

[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.
[Parallel(n_jobs=-1)]: Done  34 tasks      | elapsed:    0.0s
[Parallel(n_jobs=-1)]: Done 1024 out of 1024 | elapsed:    1.2s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done  25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks      | elapsed:    0.1s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.1s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done  25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks      | elapsed:    0.1s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.1s finished

[CV] ... max_features=4, total=    2.0s
[CV] max_features=6 ...

[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.
[Parallel(n_jobs=-1)]: Done  34 tasks      | elapsed:    0.0s
[Parallel(n_jobs=-1)]: Done 1024 out of 1024 | elapsed:    1.4s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done  25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks      | elapsed:    0.1s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.1s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done  25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks      | elapsed:    0.1s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.1s finished

[CV] ... max_features=6, total=    2.3s
[CV] max_features=6 ...

[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.

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[Parallel(n_jobs=-1)]: Done 34 tasks      | elapsed:    0.0s
[Parallel(n_jobs=-1)]: Done 1024 out of 1024 | elapsed:    1.4s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks     | elapsed:    0.1s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.1s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks     | elapsed:    0.1s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.1s finished

[CV] ... max_features=6, total=    2.2s
[CV] max_features=6 ...

[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.
[Parallel(n_jobs=-1)]: Done 34 tasks      | elapsed:    0.0s
[Parallel(n_jobs=-1)]: Done 1024 out of 1024 | elapsed:    1.5s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks     | elapsed:    0.1s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.1s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks     | elapsed:    0.1s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.1s finished

[CV] ... max_features=6, total=    2.3s
[CV] max_features=6 ...

[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.
[Parallel(n_jobs=-1)]: Done 34 tasks      | elapsed:    0.0s
[Parallel(n_jobs=-1)]: Done 1024 out of 1024 | elapsed:    1.4s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks     | elapsed:    0.1s

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[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.1s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks     | elapsed:    0.1s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.1s finished

[CV] ... max_features=6, total=    2.2s
[CV] max_features=6 ...

[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.
[Parallel(n_jobs=-1)]: Done 34 tasks      | elapsed:    0.0s
[Parallel(n_jobs=-1)]: Done 1024 out of 1024 | elapsed:    1.4s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.0s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.0s finished

[CV] ... max_features=6, total=    2.2s
[CV] max_features=8 ...

[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.
[Parallel(n_jobs=-1)]: Done 34 tasks      | elapsed:    0.0s
[Parallel(n_jobs=-1)]: Done 1024 out of 1024 | elapsed:    1.4s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.1s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks     | elapsed:    0.1s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.1s finished

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[CV] ... max_features=8, total= 2.2s
[CV] max_features=8 ...

[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.
[Parallel(n_jobs=-1)]: Done 34 tasks | elapsed: 0.0s
[Parallel(n_jobs=-1)]: Done 1024 out of 1024 | elapsed: 1.4s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks | elapsed: 0.0s
[Parallel(n_jobs=8)]: Done 146 tasks | elapsed: 0.0s
[Parallel(n_jobs=8)]: Done 349 tasks | elapsed: 0.0s
[Parallel(n_jobs=8)]: Done 632 tasks | elapsed: 0.0s
[Parallel(n_jobs=8)]: Done 997 tasks | elapsed: 0.0s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed: 0.1s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks | elapsed: 0.0s
[Parallel(n_jobs=8)]: Done 146 tasks | elapsed: 0.0s
[Parallel(n_jobs=8)]: Done 349 tasks | elapsed: 0.0s
[Parallel(n_jobs=8)]: Done 632 tasks | elapsed: 0.0s
[Parallel(n_jobs=8)]: Done 997 tasks | elapsed: 0.0s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed: 0.1s finished

[CV] ... max_features=8, total= 2.2s
[CV] max_features=8 ...

[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.
[Parallel(n_jobs=-1)]: Done 34 tasks | elapsed: 0.0s
[Parallel(n_jobs=-1)]: Done 1024 out of 1024 | elapsed: 1.5s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks | elapsed: 0.0s
[Parallel(n_jobs=8)]: Done 146 tasks | elapsed: 0.0s
[Parallel(n_jobs=8)]: Done 349 tasks | elapsed: 0.0s
[Parallel(n_jobs=8)]: Done 632 tasks | elapsed: 0.1s
[Parallel(n_jobs=8)]: Done 997 tasks | elapsed: 0.2s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed: 0.2s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks | elapsed: 0.0s
[Parallel(n_jobs=8)]: Done 146 tasks | elapsed: 0.0s
[Parallel(n_jobs=8)]: Done 349 tasks | elapsed: 0.0s
[Parallel(n_jobs=8)]: Done 632 tasks | elapsed: 0.0s
[Parallel(n_jobs=8)]: Done 997 tasks | elapsed: 0.2s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed: 0.2s finished

[CV] ... max_features=8, total= 2.6s
[CV] max_features=8 ...

[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.
[Parallel(n_jobs=-1)]: Done 34 tasks | elapsed: 0.0s
[Parallel(n_jobs=-1)]: Done 1024 out of 1024 | elapsed: 1.8s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks | elapsed: 0.0s

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[Parallel(n_jobs=8)]: Done 146 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks      | elapsed:    0.1s
[Parallel(n_jobs=8)]: Done 997 tasks      | elapsed:    0.2s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.2s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks       | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks      | elapsed:    0.1s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.1s finished

[CV] ... max_features=8, total=    3.0s
[CV] max_features=8 ...

[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.
[Parallel(n_jobs=-1)]: Done 34 tasks      | elapsed:    0.0s
[Parallel(n_jobs=-1)]: Done 1024 out of 1024 | elapsed:    1.5s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks       | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks      | elapsed:    0.1s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.1s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks       | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks      | elapsed:    0.1s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.1s finished

[CV] ... max_features=8, total=    2.4s
[CV] max_features=12 ...

[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.
[Parallel(n_jobs=-1)]: Done 34 tasks      | elapsed:    0.0s
[Parallel(n_jobs=-1)]: Done 1024 out of 1024 | elapsed:    1.8s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks       | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks      | elapsed:    0.1s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.1s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks       | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks      | elapsed:    0.0s

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[Parallel(n_jobs=8)]: Done 349 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks      | elapsed:    0.1s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.1s finished

[CV] ... max_features=12, total=    2.6s
[CV] max_features=12 ...

[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.
[Parallel(n_jobs=-1)]: Done  34 tasks      | elapsed:    0.0s
[Parallel(n_jobs=-1)]: Done 1024 out of 1024 | elapsed:    1.8s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done  25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks      | elapsed:    0.1s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.1s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done  25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks      | elapsed:    0.1s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.1s finished

[CV] ... max_features=12, total=    2.6s
[CV] max_features=12 ...

[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.
[Parallel(n_jobs=-1)]: Done  34 tasks      | elapsed:    0.0s
[Parallel(n_jobs=-1)]: Done 1024 out of 1024 | elapsed:    1.7s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done  25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks      | elapsed:    0.1s
[Parallel(n_jobs=8)]: Done 997 tasks      | elapsed:    0.1s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.1s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done  25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks      | elapsed:    0.1s
[Parallel(n_jobs=8)]: Done 997 tasks      | elapsed:    0.1s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.1s finished

[CV] ... max_features=12, total=    2.8s
[CV] max_features=12 ...

[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.

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[Parallel(n_jobs=-1)]: Done 34 tasks      | elapsed:    0.0s
[Parallel(n_jobs=-1)]: Done 1024 out of 1024 | elapsed:    1.7s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.0s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.0s finished

[CV] ... max_features=12, total=    2.7s
[CV] max_features=12 ...

[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.
[Parallel(n_jobs=-1)]: Done 34 tasks      | elapsed:    0.0s
[Parallel(n_jobs=-1)]: Done 1024 out of 1024 | elapsed:    1.7s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.1s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.1s finished

[CV] ... max_features=12, total=    2.5s

[Parallel(n_jobs=1)]: Done 30 out of 30 | elapsed:  1.1min finished
[Parallel(n_jobs=-1)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=-1)]: Done 25 tasks      | elapsed:    0.0s

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[Parallel(n_jobs=-1)]: Done 146 tasks | elapsed: 0.2s

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[Parallel(n_jobs=-1)]: Done 349 tasks | elapsed: 0.6s

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[Parallel(n_jobs=-1)]: Done 632 tasks | elapsed: 1.3s

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[Parallel(n_jobs=-1)]: Done 997 tasks      | elapsed:    2.2s
[Parallel(n_jobs=-1)]: Done 1024 out of 1024 | elapsed:    2.2s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks     | elapsed:    0.1s
[Parallel(n_jobs=8)]: Done 632 tasks     | elapsed:    0.2s
[Parallel(n_jobs=8)]: Done 997 tasks     | elapsed:    0.4s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.4s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks      | elapsed:    0.4s
[Parallel(n_jobs=8)]: Done 146 tasks     | elapsed:    2.4s
[Parallel(n_jobs=8)]: Done 349 tasks     | elapsed:    5.8s
[Parallel(n_jobs=8)]: Done 632 tasks     | elapsed:   10.4s
[Parallel(n_jobs=8)]: Done 997 tasks     | elapsed:   16.3s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:   16.7s finished

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[Parallel(n_jobs=-1)]: Using backend ThreadingBackend with 8 concurrent workers.  
[Parallel(n_jobs=-1)]: Done 25 tasks      | elapsed:    0.0s
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[Parallel(n_jobs=-1)]: Done 146 tasks | elapsed: 0.2s

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[Parallel(n_jobs=-1)]: Done 349 tasks | elapsed: 0.7s

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[Parallel(n_jobs=-1)]: Done 632 tasks | elapsed: 1.4s
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[Parallel(n_jobs=-1)]: Done 997 tasks      | elapsed:    2.3s
[Parallel(n_jobs=-1)]: Done 1024 out of 1024 | elapsed:    2.4s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks     | elapsed:    0.1s
[Parallel(n_jobs=8)]: Done 632 tasks     | elapsed:    0.2s
[Parallel(n_jobs=8)]: Done 997 tasks     | elapsed:    0.3s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.4s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks      | elapsed:    0.4s
[Parallel(n_jobs=8)]: Done 146 tasks     | elapsed:    2.3s
[Parallel(n_jobs=8)]: Done 349 tasks     | elapsed:    5.8s
[Parallel(n_jobs=8)]: Done 632 tasks     | elapsed:   10.4s
[Parallel(n_jobs=8)]: Done 997 tasks     | elapsed:   16.6s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:   17.0s finished

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[Parallel(n_jobs=-1)]: Using backend ThreadingBackend with 8 concurrent workers.  
[Parallel(n_jobs=-1)]: Done 25 tasks      | elapsed: 0.0s
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[Parallel(n_jobs=-1)]: Done 146 tasks | elapsed: 0.3s
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[Parallel(n_jobs=-1)]: Done 349 tasks | elapsed: 0.7s

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[Parallel(n_jobs=-1)]: Done 632 tasks | elapsed: 1.4s
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building tree 1003 of 1024

building tree 1004 of 1024building tree 1005 of 1024

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building tree 1007 of 1024building tree 1008 of 1024

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building tree 1017 of 1024
building tree 1018 of 1024building tree 1019 of 1024building tree 1020 of 1024
building tree 1021 of 1024

building tree 1022 of 1024

building tree 1023 of 1024
building tree 1024 of 1024

[Parallel(n_jobs=-1)]: Done 997 tasks      | elapsed:    2.3s
[Parallel(n_jobs=-1)]: Done 1024 out of 1024 | elapsed:    2.4s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks     | elapsed:    0.1s
[Parallel(n_jobs=8)]: Done 632 tasks     | elapsed:    0.2s
[Parallel(n_jobs=8)]: Done 997 tasks     | elapsed:    0.3s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.3s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks      | elapsed:    0.4s
[Parallel(n_jobs=8)]: Done 146 tasks     | elapsed:    2.4s
[Parallel(n_jobs=8)]: Done 349 tasks     | elapsed:    5.7s
[Parallel(n_jobs=8)]: Done 632 tasks     | elapsed:   10.5s

```

```
[Parallel(n_jobs=8)]: Done 997 tasks      | elapsed:    16.5s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    16.9s finished
```

Trial 5

Fitting 5 folds for each of 6 candidates, totalling 30 fits

```
[CV] max_features=1 ...
```

```
[Parallel(n_jobs=1)]: Using backend SequentialBackend with 1 concurrent workers.
[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.
[Parallel(n_jobs=-1)]: Done 34 tasks      | elapsed:    0.0s
[Parallel(n_jobs=-1)]: Done 1024 out of 1024 | elapsed:    1.0s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks     | elapsed:    0.1s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.1s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks     | elapsed:    0.1s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.1s finished
```

```
[CV] ... max_features=1, total=    1.9s
```

```
[CV] max_features=1 ...
```

```
[Parallel(n_jobs=1)]: Done 1 out of 1 | elapsed:    1.8s remaining:    0.0s
[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.
[Parallel(n_jobs=-1)]: Done 34 tasks      | elapsed:    0.0s
[Parallel(n_jobs=-1)]: Done 1024 out of 1024 | elapsed:    1.0s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks     | elapsed:    0.1s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.1s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks     | elapsed:    0.1s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.1s finished
```

```
[CV] ... max_features=1, total=    2.0s
```

```

[CV] max_features=1 ...

[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.
[Parallel(n_jobs=-1)]: Done 34 tasks      | elapsed:    0.0s
[Parallel(n_jobs=-1)]: Done 1024 out of 1024 | elapsed:    1.0s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.0s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.1s finished

[CV] ... max_features=1, total=    1.8s
[CV] max_features=1 ...

[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.
[Parallel(n_jobs=-1)]: Done 34 tasks      | elapsed:    0.0s
[Parallel(n_jobs=-1)]: Done 1024 out of 1024 | elapsed:    1.1s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks     | elapsed:    0.1s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.1s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks     | elapsed:    0.1s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.1s finished

[CV] ... max_features=1, total=    1.9s
[CV] max_features=1 ...

[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.
[Parallel(n_jobs=-1)]: Done 34 tasks      | elapsed:    0.0s
[Parallel(n_jobs=-1)]: Done 1024 out of 1024 | elapsed:    1.0s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks     | elapsed:    0.0s

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```

[Parallel(n_jobs=8)]: Done 349 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks      | elapsed:    0.1s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.1s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks       | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.1s finished

[CV] ... max_features=1, total=    1.9s
[CV] max_features=2 ...

[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.
[Parallel(n_jobs=-1)]: Done 34 tasks      | elapsed:    0.0s
[Parallel(n_jobs=-1)]: Done 1024 out of 1024 | elapsed:    1.0s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks       | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.0s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks       | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.1s finished

[CV] ... max_features=2, total=    1.9s
[CV] max_features=2 ...

[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.
[Parallel(n_jobs=-1)]: Done 34 tasks      | elapsed:    0.0s
[Parallel(n_jobs=-1)]: Done 1024 out of 1024 | elapsed:    1.1s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks       | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.1s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks       | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks      | elapsed:    0.0s

```



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[Parallel(n_jobs=8)]: Done 632 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.1s finished

[CV] ... max_features=2, total=    1.9s
[CV] max_features=2 ...

[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.
[Parallel(n_jobs=-1)]: Done  34 tasks      | elapsed:    0.0s
[Parallel(n_jobs=-1)]: Done 1024 out of 1024 | elapsed:    1.0s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done  25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.1s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done  25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.0s finished

[CV] ... max_features=2, total=    1.9s
[CV] max_features=2 ...

[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.
[Parallel(n_jobs=-1)]: Done  34 tasks      | elapsed:    0.0s
[Parallel(n_jobs=-1)]: Done 1024 out of 1024 | elapsed:    1.0s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done  25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.0s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done  25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.0s finished

[CV] ... max_features=2, total=    1.9s
[CV] max_features=2 ...

[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.
[Parallel(n_jobs=-1)]: Done  34 tasks      | elapsed:    0.0s

```

```

[Parallel(n_jobs=-1)]: Done 1024 out of 1024 | elapsed:    1.2s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.1s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks     | elapsed:    0.1s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.1s finished

[CV] ... max_features=2, total=    2.0s
[CV] max_features=4 ...

[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.
[Parallel(n_jobs=-1)]: Done 34 tasks      | elapsed:    0.0s
[Parallel(n_jobs=-1)]: Done 1024 out of 1024 | elapsed:    1.1s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.1s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.1s finished

[CV] ... max_features=4, total=    2.0s
[CV] max_features=4 ...

[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.
[Parallel(n_jobs=-1)]: Done 34 tasks      | elapsed:    0.0s
[Parallel(n_jobs=-1)]: Done 1024 out of 1024 | elapsed:    1.1s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.1s finished

```

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[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.1s finished

[CV] ... max_features=4, total=    2.0s
[CV] max_features=4 ...

[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.
[Parallel(n_jobs=-1)]: Done 34 tasks     | elapsed:    0.0s
[Parallel(n_jobs=-1)]: Done 1024 out of 1024 | elapsed:    1.1s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.0s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.0s finished

[CV] ... max_features=4, total=    2.0s
[CV] max_features=4 ...

[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.
[Parallel(n_jobs=-1)]: Done 34 tasks     | elapsed:    0.0s
[Parallel(n_jobs=-1)]: Done 1024 out of 1024 | elapsed:    1.2s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks     | elapsed:    0.1s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.1s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks     | elapsed:    0.1s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.1s finished

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[CV] ... max_features=4, total= 2.0s
[CV] max_features=4 ...

[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.
[Parallel(n_jobs=-1)]: Done 34 tasks | elapsed: 0.0s
[Parallel(n_jobs=-1)]: Done 1024 out of 1024 | elapsed: 1.3s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks | elapsed: 0.0s
[Parallel(n_jobs=8)]: Done 146 tasks | elapsed: 0.0s
[Parallel(n_jobs=8)]: Done 349 tasks | elapsed: 0.0s
[Parallel(n_jobs=8)]: Done 632 tasks | elapsed: 0.0s
[Parallel(n_jobs=8)]: Done 997 tasks | elapsed: 0.1s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed: 0.1s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks | elapsed: 0.0s
[Parallel(n_jobs=8)]: Done 146 tasks | elapsed: 0.0s
[Parallel(n_jobs=8)]: Done 349 tasks | elapsed: 0.0s
[Parallel(n_jobs=8)]: Done 632 tasks | elapsed: 0.0s
[Parallel(n_jobs=8)]: Done 997 tasks | elapsed: 0.1s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed: 0.1s finished

[CV] ... max_features=4, total= 2.1s
[CV] max_features=6 ...

[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.
[Parallel(n_jobs=-1)]: Done 34 tasks | elapsed: 0.0s
[Parallel(n_jobs=-1)]: Done 1024 out of 1024 | elapsed: 1.5s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks | elapsed: 0.0s
[Parallel(n_jobs=8)]: Done 146 tasks | elapsed: 0.0s
[Parallel(n_jobs=8)]: Done 349 tasks | elapsed: 0.0s
[Parallel(n_jobs=8)]: Done 632 tasks | elapsed: 0.0s
[Parallel(n_jobs=8)]: Done 997 tasks | elapsed: 0.1s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed: 0.1s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks | elapsed: 0.0s
[Parallel(n_jobs=8)]: Done 146 tasks | elapsed: 0.0s
[Parallel(n_jobs=8)]: Done 349 tasks | elapsed: 0.0s
[Parallel(n_jobs=8)]: Done 632 tasks | elapsed: 0.0s
[Parallel(n_jobs=8)]: Done 997 tasks | elapsed: 0.1s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed: 0.1s finished

[CV] ... max_features=6, total= 2.3s
[CV] max_features=6 ...

[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.
[Parallel(n_jobs=-1)]: Done 34 tasks | elapsed: 0.0s
[Parallel(n_jobs=-1)]: Done 1024 out of 1024 | elapsed: 1.4s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks | elapsed: 0.0s

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[Parallel(n_jobs=8)]: Done 146 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks      | elapsed:    0.1s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.1s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks       | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks      | elapsed:    0.1s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.1s finished

[CV] ... max_features=6, total=    2.2s
[CV] max_features=6 ...

[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.
[Parallel(n_jobs=-1)]: Done 34 tasks      | elapsed:    0.0s
[Parallel(n_jobs=-1)]: Done 1024 out of 1024 | elapsed:    1.4s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks       | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks      | elapsed:    0.1s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.1s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks       | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks      | elapsed:    0.1s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.1s finished

[CV] ... max_features=6, total=    2.2s
[CV] max_features=6 ...

[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.
[Parallel(n_jobs=-1)]: Done 34 tasks      | elapsed:    0.0s
[Parallel(n_jobs=-1)]: Done 1024 out of 1024 | elapsed:    1.4s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks       | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks      | elapsed:    0.1s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.1s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks       | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks      | elapsed:    0.0s

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[Parallel(n_jobs=8)]: Done 349 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks      | elapsed:    0.1s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.1s finished

[CV] ... max_features=6, total=    2.2s
[CV] max_features=6 ...

[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.
[Parallel(n_jobs=-1)]: Done  34 tasks      | elapsed:    0.0s
[Parallel(n_jobs=-1)]: Done 1024 out of 1024 | elapsed:    1.3s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done  25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks      | elapsed:    0.1s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.1s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done  25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.1s finished

[CV] ... max_features=6, total=    2.1s
[CV] max_features=8 ...

[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.
[Parallel(n_jobs=-1)]: Done  34 tasks      | elapsed:    0.0s
[Parallel(n_jobs=-1)]: Done 1024 out of 1024 | elapsed:    1.4s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done  25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.0s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done  25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.0s finished

[CV] ... max_features=8, total=    2.2s
[CV] max_features=8 ...

[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.

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[Parallel(n_jobs=-1)]: Done 34 tasks      | elapsed:    0.0s
[Parallel(n_jobs=-1)]: Done 1024 out of 1024 | elapsed:    1.4s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.0s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.1s finished

[CV] ... max_features=8, total=    2.2s
[CV] max_features=8 ...

[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.
[Parallel(n_jobs=-1)]: Done 34 tasks      | elapsed:    0.0s
[Parallel(n_jobs=-1)]: Done 1024 out of 1024 | elapsed:    1.4s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.0s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.0s finished

[CV] ... max_features=8, total=    2.2s
[CV] max_features=8 ...

[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.
[Parallel(n_jobs=-1)]: Done 34 tasks      | elapsed:    0.0s
[Parallel(n_jobs=-1)]: Done 1024 out of 1024 | elapsed:    1.5s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks     | elapsed:    0.1s

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[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.1s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.1s finished

[CV] ... max_features=8, total=    2.4s
[CV] max_features=8 ...

[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.
[Parallel(n_jobs=-1)]: Done 34 tasks      | elapsed:    0.0s
[Parallel(n_jobs=-1)]: Done 1024 out of 1024 | elapsed:    1.5s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks     | elapsed:    0.1s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.1s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks     | elapsed:    0.1s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.1s finished

[CV] ... max_features=8, total=    2.3s
[CV] max_features=12 ...

[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.
[Parallel(n_jobs=-1)]: Done 34 tasks      | elapsed:    0.0s
[Parallel(n_jobs=-1)]: Done 1024 out of 1024 | elapsed:    1.8s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks     | elapsed:    0.1s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.1s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks     | elapsed:    0.1s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.1s finished

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[CV] ... max_features=12, total= 2.7s
[CV] max_features=12 ...

[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.
[Parallel(n_jobs=-1)]: Done 34 tasks | elapsed: 0.0s
[Parallel(n_jobs=-1)]: Done 1024 out of 1024 | elapsed: 1.8s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks | elapsed: 0.0s
[Parallel(n_jobs=8)]: Done 146 tasks | elapsed: 0.0s
[Parallel(n_jobs=8)]: Done 349 tasks | elapsed: 0.0s
[Parallel(n_jobs=8)]: Done 632 tasks | elapsed: 0.0s
[Parallel(n_jobs=8)]: Done 997 tasks | elapsed: 0.1s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed: 0.1s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks | elapsed: 0.0s
[Parallel(n_jobs=8)]: Done 146 tasks | elapsed: 0.0s
[Parallel(n_jobs=8)]: Done 349 tasks | elapsed: 0.0s
[Parallel(n_jobs=8)]: Done 632 tasks | elapsed: 0.0s
[Parallel(n_jobs=8)]: Done 997 tasks | elapsed: 0.1s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed: 0.1s finished

[CV] ... max_features=12, total= 2.7s
[CV] max_features=12 ...

[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.
[Parallel(n_jobs=-1)]: Done 34 tasks | elapsed: 0.0s
[Parallel(n_jobs=-1)]: Done 1024 out of 1024 | elapsed: 1.8s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks | elapsed: 0.0s
[Parallel(n_jobs=8)]: Done 146 tasks | elapsed: 0.0s
[Parallel(n_jobs=8)]: Done 349 tasks | elapsed: 0.0s
[Parallel(n_jobs=8)]: Done 632 tasks | elapsed: 0.0s
[Parallel(n_jobs=8)]: Done 997 tasks | elapsed: 0.1s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed: 0.1s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks | elapsed: 0.0s
[Parallel(n_jobs=8)]: Done 146 tasks | elapsed: 0.0s
[Parallel(n_jobs=8)]: Done 349 tasks | elapsed: 0.0s
[Parallel(n_jobs=8)]: Done 632 tasks | elapsed: 0.0s
[Parallel(n_jobs=8)]: Done 997 tasks | elapsed: 0.1s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed: 0.1s finished

[CV] ... max_features=12, total= 2.7s
[CV] max_features=12 ...

[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.
[Parallel(n_jobs=-1)]: Done 34 tasks | elapsed: 0.0s
[Parallel(n_jobs=-1)]: Done 1024 out of 1024 | elapsed: 1.8s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks | elapsed: 0.0s

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[Parallel(n_jobs=8)]: Done 146 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks      | elapsed:    0.1s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.1s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks      | elapsed:    0.1s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.1s finished

[CV] ... max_features=12, total=    2.6s
[CV] max_features=12 ...

[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.
[Parallel(n_jobs=-1)]: Done 34 tasks      | elapsed:    0.0s
[Parallel(n_jobs=-1)]: Done 1024 out of 1024 | elapsed:    1.8s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks      | elapsed:    0.1s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.1s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks      | elapsed:    0.1s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.1s finished

[CV] ... max_features=12, total=    2.6s

[Parallel(n_jobs=1)]: Done 30 out of 30 | elapsed:  1.1min finished
[Parallel(n_jobs=-1)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=-1)]: Done 25 tasks      | elapsed:    0.0s

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[Parallel(n_jobs=-1)]: Done 146 tasks | elapsed: 0.3s

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[Parallel(n_jobs=-1)]: Done 349 tasks | elapsed: 0.8s
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[Parallel(n_jobs=-1)]: Done 632 tasks      | elapsed:    1.6s

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[Parallel(n_jobs=-1)]: Done 997 tasks      | elapsed:    2.5s
[Parallel(n_jobs=-1)]: Done 1024 out of 1024 | elapsed:    2.6s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks     | elapsed:    0.0s

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[Parallel(n_jobs=8)]: Done 349 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks     | elapsed:    0.1s
[Parallel(n_jobs=8)]: Done 997 tasks     | elapsed:    0.2s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.2s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks     | elapsed:    0.4s
[Parallel(n_jobs=8)]: Done 146 tasks     | elapsed:    2.2s
[Parallel(n_jobs=8)]: Done 349 tasks     | elapsed:    5.1s
[Parallel(n_jobs=8)]: Done 632 tasks     | elapsed:    9.5s
[Parallel(n_jobs=8)]: Done 997 tasks     | elapsed:   15.1s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:   15.6s finished
[Parallel(n_jobs=-1)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=-1)]: Done 25 tasks     | elapsed:    0.0s

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[Parallel(n_jobs=-1)]: Done 146 tasks | elapsed: 0.3s

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[Parallel(n_jobs=-1)]: Done 349 tasks      | elapsed:    0.8s


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[Parallel(n_jobs=-1)]: Done 632 tasks | elapsed: 1.5s
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[Parallel(n_jobs=-1)]: Done 997 tasks      | elapsed:    2.4s
[Parallel(n_jobs=-1)]: Done 1024 out of 1024 | elapsed:    2.5s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks     | elapsed:    0.1s
[Parallel(n_jobs=8)]: Done 997 tasks     | elapsed:    0.2s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.2s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks      | elapsed:    0.3s
[Parallel(n_jobs=8)]: Done 146 tasks     | elapsed:    2.2s
[Parallel(n_jobs=8)]: Done 349 tasks     | elapsed:    5.3s
[Parallel(n_jobs=8)]: Done 632 tasks     | elapsed:    9.8s
[Parallel(n_jobs=8)]: Done 997 tasks     | elapsed:   15.4s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:   15.8s finished
[Parallel(n_jobs=-1)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=-1)]: Done 25 tasks      | elapsed:    0.0s

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[Parallel(n_jobs=-1)]: Done 146 tasks | elapsed: 0.3s

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[Parallel(n_jobs=-1)]: Done 349 tasks | elapsed: 0.8s

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[Parallel(n_jobs=-1)]: Done 632 tasks | elapsed: 1.4s
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[Parallel(n_jobs=-1)]: Done 997 tasks      | elapsed:    2.3s
[Parallel(n_jobs=-1)]: Done 1024 out of 1024 | elapsed:    2.4s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks     | elapsed:    0.1s
[Parallel(n_jobs=8)]: Done 997 tasks     | elapsed:    0.2s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.2s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks      | elapsed:    0.3s
[Parallel(n_jobs=8)]: Done 146 tasks     | elapsed:    2.0s
[Parallel(n_jobs=8)]: Done 349 tasks     | elapsed:    4.9s
[Parallel(n_jobs=8)]: Done 632 tasks     | elapsed:    9.1s
[Parallel(n_jobs=8)]: Done 997 tasks     | elapsed:   15.1s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:   15.5s finished

```

```
[30]: metrics_cov_RF
```

```

[30]: array([[1.          , 1.          , 1.          , 0.83675166, 0.77306341,
              0.82274518],
             [1.          , 1.          , 1.          , 0.83625515, 0.77398845,
              0.82181114],
             [1.          , 1.          , 1.          , 0.83703291, 0.77437279,
              0.82263472],
             [1.          , 1.          , 1.          , 0.83702423, 0.77091989,
              0.81817815],

```

```
[1.          , 1.          , 1.          , 0.83791136, 0.77001217,
 0.81851292]])
```

DT: COVTYPE

```
[31]: metrics_cov_DT = np.zeros((5, 6))

for i in range(5):
    print("\n Trial", i+1)
    # randomly split the data. size of training data will be 5000
    X_train, X_test, Y_train, Y_test = train_test_split(X_covtype, Y_covtype,
    ↪train_size = 5000)

    # initialize the classifier
    classifier_DT = DecisionTreeClassifier(random_state = 0)

    crit_list = ['gini', 'entropy']
    depth_list = [1, 2, 3, 4, 5]

    parameters = {'criterion': crit_list, 'max_depth': depth_list}

    search_clf = GridSearchCV(classifier_DT, parameters, cv =
    ↪StratifiedKFold(n_splits = 5),
                                scoring = ['accuracy', 'roc_auc_ovr', 'f1_micro'],
    ↪refit = False, verbose = 0, n_jobs = -1)
    match_model = search_clf.fit(X_train, Y_train)

    match_param = match_model.cv_results_['params'][np.argmin(match_model.
    ↪cv_results_['rank_test_roc_auc_ovr'])]
    classifier_DT.set_params(**match_param)
    classifier_DT.fit(X_train, Y_train)
    Y_pred_train_auc = classifier_DT.predict(X_train)
    Y_pred_test_auc = classifier_DT.predict(X_test)
    metrics_cov_DT[i, 2] = roc_auc_score(Y_train, Y_pred_train_auc)
    metrics_cov_DT[i, 5] = roc_auc_score(Y_test, Y_pred_test_auc)

    match_param = match_model.cv_results_['params'][np.argmin(match_model.
    ↪cv_results_['rank_test_accuracy'])]
    classifier_DT.set_params(**match_param)
    classifier_DT.fit(X_train, Y_train)
    Y_pred_train_acc = classifier_DT.predict(X_train)
    Y_pred_test_acc = classifier_DT.predict(X_test)
    metrics_cov_DT[i, 0] = accuracy_score(Y_train, Y_pred_train_acc)
    metrics_cov_DT[i, 3] = accuracy_score(Y_test, Y_pred_test_acc)
```

```

match_param = match_model.cv_results_['params'][np.argmin(match_model.
↪cv_results_['rank_test_f1_micro'])]
classifier_DT.set_params(**match_param)
classifier_DT.fit(X_train, Y_train)
Y_pred_train_f1 = classifier_DT.predict(X_train)
Y_pred_test_f1 = classifier_DT.predict(X_test)
metrics_cov_DT[i, 1] = f1_score(Y_train, Y_pred_train_f1)
metrics_cov_DT[i, 4] = f1_score(Y_test, Y_pred_test_f1)

```

Trial 1

Fitting 5 folds for each of 10 candidates, totalling 50 fits

```

[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.
[Parallel(n_jobs=-1)]: Done 25 tasks      | elapsed:    0.9s
[Parallel(n_jobs=-1)]: Done 50 out of 50 | elapsed:    1.1s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks      | elapsed:    0.5s
[Parallel(n_jobs=8)]: Done 146 tasks     | elapsed:    2.8s
[Parallel(n_jobs=8)]: Done 349 tasks     | elapsed:    6.2s
[Parallel(n_jobs=8)]: Done 632 tasks     | elapsed:   10.8s
[Parallel(n_jobs=8)]: Done 997 tasks     | elapsed:   16.8s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:   17.3s finished

```

Trial 2

Fitting 5 folds for each of 10 candidates, totalling 50 fits

```

[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.
[Parallel(n_jobs=-1)]: Done 50 out of 50 | elapsed:    0.2s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks      | elapsed:    0.4s
[Parallel(n_jobs=8)]: Done 146 tasks     | elapsed:    2.3s
[Parallel(n_jobs=8)]: Done 349 tasks     | elapsed:    5.4s
[Parallel(n_jobs=8)]: Done 632 tasks     | elapsed:   10.0s
[Parallel(n_jobs=8)]: Done 997 tasks     | elapsed:   15.8s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:   16.2s finished

```

Trial 3

Fitting 5 folds for each of 10 candidates, totalling 50 fits

```

[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.
[Parallel(n_jobs=-1)]: Done 50 out of 50 | elapsed:    0.2s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks      | elapsed:    0.4s
[Parallel(n_jobs=8)]: Done 146 tasks     | elapsed:    2.4s
[Parallel(n_jobs=8)]: Done 349 tasks     | elapsed:    5.6s
[Parallel(n_jobs=8)]: Done 632 tasks     | elapsed:    9.8s
[Parallel(n_jobs=8)]: Done 997 tasks     | elapsed:   15.1s

```

```
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed: 15.5s finished
```

Trial 4

Fitting 5 folds for each of 10 candidates, totalling 50 fits

```
[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.  
[Parallel(n_jobs=-1)]: Done 50 out of 50 | elapsed: 0.1s finished  
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.  
[Parallel(n_jobs=8)]: Done 25 tasks | elapsed: 0.3s  
[Parallel(n_jobs=8)]: Done 146 tasks | elapsed: 2.1s  
[Parallel(n_jobs=8)]: Done 349 tasks | elapsed: 5.0s  
[Parallel(n_jobs=8)]: Done 632 tasks | elapsed: 9.2s  
[Parallel(n_jobs=8)]: Done 997 tasks | elapsed: 14.7s  
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed: 15.2s finished
```

Trial 5

Fitting 5 folds for each of 10 candidates, totalling 50 fits

```
[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.  
[Parallel(n_jobs=-1)]: Done 50 out of 50 | elapsed: 0.2s finished  
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.  
[Parallel(n_jobs=8)]: Done 25 tasks | elapsed: 0.4s  
[Parallel(n_jobs=8)]: Done 146 tasks | elapsed: 2.2s  
[Parallel(n_jobs=8)]: Done 349 tasks | elapsed: 5.4s  
[Parallel(n_jobs=8)]: Done 632 tasks | elapsed: 9.8s  
[Parallel(n_jobs=8)]: Done 997 tasks | elapsed: 15.4s  
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed: 15.7s finished
```

```
[32]: metrics_cov_DT
```

```
[32]: array([[0.7796, 0.69675289, 0.76676912, 0.75661618, 0.66462367,  
            0.81942084],  
            [0.7832, 0.71756123, 0.78048899, 0.76473233, 0.69691744,  
            0.81939658],  
            [0.7738, 0.70780214, 0.77044074, 0.75489226, 0.69171812,  
            0.819513 ],  
            [0.7824, 0.7148847, 0.77650301, 0.76152233, 0.68746644,  
            0.81942997],  
            [0.7564, 0.68215031, 0.76033319, 0.74853302, 0.67307658,  
            0.81955774]])
```

LR: LETTER P1

```
[93]: # standardize data  
scaler = StandardScaler()  
X_letter_sc = scaler.fit(X_letter).transform(X_letter)
```

```
[94]: Y_letter_P1 = Y_letter_P1.astype(float)
```

```
[97]: metrics_letter_P1_LR = np.zeros((5, 6))

for i in range(5):
    print("\n Trial", i+1)
    # randomly split the data. size of training data will be 5000
    X_train, X_test, Y_train, Y_test = train_test_split(X_letter, Y_letter_P1,
    ↪ train_size = 5000)

    # initialize the classifier
    classifier_LR = LogisticRegression(penalty = 'l2', max_iter = 5000, solver=
    ↪ 'saga', verbose = 0, n_jobs = -1)

    C_list = [1e-4, 1e-3, 1e-2, 1e-1, 1e0, 1e1, 1e2, 1e3, 1e4, 0]

    parameters = {'C': C_list}

    search_clf = GridSearchCV(classifier_LR, parameters, cv =
    ↪ StratifiedKFold(n_splits = 5),
                                scoring = ['accuracy', 'roc_auc_ovr', 'f1_micro'],
    ↪ refit = False, verbose = 0)
    match_model = search_clf.fit(X_train, Y_train)

    match_param = match_model.cv_results_['params'][np.argmin(match_model.
    ↪ cv_results_['rank_test_roc_auc_ovr'])]
    classifier_LR.set_params(**match_param)
    classifier_LR.fit(X_train, Y_train)
    Y_pred_train_auc = classifier_LR.predict(X_train)
    Y_pred_test_auc = classifier_LR.predict(X_test)
    metrics_letter_P1_LR[i, 2] = roc_auc_score(Y_train, Y_pred_train_auc)
    metrics_letter_P1_LR[i, 5] = roc_auc_score(Y_test, Y_pred_test_auc)

    match_param = match_model.cv_results_['params'][np.argmin(match_model.
    ↪ cv_results_['rank_test_accuracy'])]
    classifier_LR.set_params(**match_param)
    classifier_LR.fit(X_train, Y_train)
    Y_pred_train_acc = classifier_LR.predict(X_train)
    Y_pred_test_acc = classifier_LR.predict(X_test)
    metrics_letter_P1_LR[i, 0] = accuracy_score(Y_train, Y_pred_train_acc)
    metrics_letter_P1_LR[i, 3] = accuracy_score(Y_test, Y_pred_test_acc)

    match_param = match_model.cv_results_['params'][np.argmin(match_model.
    ↪ cv_results_['rank_test_f1_micro'])]
```



```

classifier_LR.set_params(**match_param)
classifier_LR.fit(X_train, Y_train)
Y_pred_train_f1 = classifier_LR.predict(X_train)
Y_pred_test_f1 = classifier_LR.predict(X_test)
metrics_letter_P1_LR[i, 1] = f1_score(Y_train, Y_pred_train_f1)
metrics_letter_P1_LR[i, 4] = f1_score(Y_test, Y_pred_test_f1)

```

Trial 1

Fitting 5 folds for each of 10 candidates, totalling 50 fits

[CV] C=0.0001 ...

[Parallel(n_jobs=1)]: Using backend SequentialBackend with 1 concurrent workers.

[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.

[Parallel(n_jobs=-1)]: Done 1 out of 1 | elapsed: 1.1s finished

[Parallel(n_jobs=1)]: Done 1 out of 1 | elapsed: 1.1s remaining: 0.0s

[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.

[CV] ... C=0.0001, total= 1.2s

[CV] C=0.0001 ...

[Parallel(n_jobs=-1)]: Done 1 out of 1 | elapsed: 0.6s finished

[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.

[CV] ... C=0.0001, total= 0.7s

[CV] C=0.0001 ...

[Parallel(n_jobs=-1)]: Done 1 out of 1 | elapsed: 0.5s finished

[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.

[CV] ... C=0.0001, total= 0.6s

[CV] C=0.0001 ...

[Parallel(n_jobs=-1)]: Done 1 out of 1 | elapsed: 0.6s finished

[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.

[CV] ... C=0.0001, total= 0.7s

[CV] C=0.0001 ...

[Parallel(n_jobs=-1)]: Done 1 out of 1 | elapsed: 0.6s finished

[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.

[CV] ... C=0.0001, total= 0.7s

[CV] C=0.001 ...

[Parallel(n_jobs=-1)]: Done 1 out of 1 | elapsed: 1.0s finished

[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.

[CV] ... C=0.001, total= 1.1s

[CV] C=0.001 ...

[Parallel(n_jobs=-1)]: Done 1 out of 1 | elapsed: 1.0s finished

[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.

```

[CV] ... C=0.001, total= 1.1s
[CV] C=0.001 ...

[Parallel(n_jobs=-1)]: Done 1 out of 1 | elapsed: 0.9s finished
[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.

[CV] ... C=0.001, total= 1.0s
[CV] C=0.001 ...

[Parallel(n_jobs=-1)]: Done 1 out of 1 | elapsed: 0.6s finished
[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.

[CV] ... C=0.001, total= 0.7s
[CV] C=0.001 ...

[Parallel(n_jobs=-1)]: Done 1 out of 1 | elapsed: 0.6s finished
[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.

[CV] ... C=0.001, total= 0.7s
[CV] C=0.01 ...

[Parallel(n_jobs=-1)]: Done 1 out of 1 | elapsed: 1.0s finished
[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.

[CV] ... C=0.01, total= 1.1s
[CV] C=0.01 ...

[Parallel(n_jobs=-1)]: Done 1 out of 1 | elapsed: 0.9s finished
[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.

[CV] ... C=0.01, total= 1.0s
[CV] C=0.01 ...

[Parallel(n_jobs=-1)]: Done 1 out of 1 | elapsed: 0.9s finished
[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.

[CV] ... C=0.01, total= 1.0s
[CV] C=0.01 ...

[Parallel(n_jobs=-1)]: Done 1 out of 1 | elapsed: 1.0s finished
[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.

[CV] ... C=0.01, total= 1.1s
[CV] C=0.01 ...

[Parallel(n_jobs=-1)]: Done 1 out of 1 | elapsed: 0.9s finished
[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.

[CV] ... C=0.01, total= 1.0s
[CV] C=0.1 ...

[Parallel(n_jobs=-1)]: Done 1 out of 1 | elapsed: 1.0s finished
[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.

[CV] ... C=0.1, total= 1.1s
[CV] C=0.1 ...

```

```

[Parallel(n_jobs=-1)]: Done 1 out of 1 | elapsed: 1.0s finished
[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.

[CV] ... C=0.1, total= 1.2s
[CV] C=0.1 ...

[Parallel(n_jobs=-1)]: Done 1 out of 1 | elapsed: 0.8s finished
[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.

[CV] ... C=0.1, total= 1.0s
[CV] C=0.1 ...

[Parallel(n_jobs=-1)]: Done 1 out of 1 | elapsed: 1.0s finished
[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.

[CV] ... C=0.1, total= 1.1s
[CV] C=0.1 ...

[Parallel(n_jobs=-1)]: Done 1 out of 1 | elapsed: 1.0s finished
[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.

[CV] ... C=0.1, total= 1.1s
[CV] C=1.0 ...

[Parallel(n_jobs=-1)]: Done 1 out of 1 | elapsed: 0.9s finished
[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.

[CV] ... C=1.0, total= 1.0s
[CV] C=1.0 ...

[Parallel(n_jobs=-1)]: Done 1 out of 1 | elapsed: 0.9s finished
[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.

[CV] ... C=1.0, total= 1.0s
[CV] C=1.0 ...

[Parallel(n_jobs=-1)]: Done 1 out of 1 | elapsed: 0.8s finished
[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.

[CV] ... C=1.0, total= 0.9s
[CV] C=1.0 ...

[Parallel(n_jobs=-1)]: Done 1 out of 1 | elapsed: 1.0s finished
[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.

[CV] ... C=1.0, total= 1.1s
[CV] C=1.0 ...

[Parallel(n_jobs=-1)]: Done 1 out of 1 | elapsed: 0.9s finished
[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.

[CV] ... C=1.0, total= 1.0s
[CV] C=10.0 ...

[Parallel(n_jobs=-1)]: Done 1 out of 1 | elapsed: 1.0s finished
[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.

```

```

[CV] ... C=10.0, total=    1.1s
[CV] C=10.0 ...

[Parallel(n_jobs=-1)]: Done    1 out of    1 | elapsed:    1.0s finished
[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.

[CV] ... C=10.0, total=    1.1s
[CV] C=10.0 ...

[Parallel(n_jobs=-1)]: Done    1 out of    1 | elapsed:    0.8s finished
[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.

[CV] ... C=10.0, total=    0.9s
[CV] C=10.0 ...

[Parallel(n_jobs=-1)]: Done    1 out of    1 | elapsed:    1.0s finished
[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.

[CV] ... C=10.0, total=    1.1s
[CV] C=10.0 ...

[Parallel(n_jobs=-1)]: Done    1 out of    1 | elapsed:    0.9s finished
[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.

[CV] ... C=10.0, total=    1.0s
[CV] C=100.0 ...

[Parallel(n_jobs=-1)]: Done    1 out of    1 | elapsed:    0.9s finished
[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.

[CV] ... C=100.0, total=    1.0s
[CV] C=100.0 ...

[Parallel(n_jobs=-1)]: Done    1 out of    1 | elapsed:    0.9s finished
[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.

[CV] ... C=100.0, total=    1.0s
[CV] C=100.0 ...

[Parallel(n_jobs=-1)]: Done    1 out of    1 | elapsed:    0.8s finished
[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.

[CV] ... C=100.0, total=    0.9s
[CV] C=100.0 ...

[Parallel(n_jobs=-1)]: Done    1 out of    1 | elapsed:    1.0s finished
[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.

[CV] ... C=100.0, total=    1.1s
[CV] C=100.0 ...

[Parallel(n_jobs=-1)]: Done    1 out of    1 | elapsed:    0.9s finished
[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.

[CV] ... C=100.0, total=    1.0s
[CV] C=1000.0 ...

```

```

[Parallel(n_jobs=-1)]: Done 1 out of 1 | elapsed: 0.9s finished
[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.

[CV] ... C=1000.0, total= 1.0s
[CV] C=1000.0 ...

[Parallel(n_jobs=-1)]: Done 1 out of 1 | elapsed: 0.9s finished
[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.

[CV] ... C=1000.0, total= 1.0s
[CV] C=1000.0 ...

[Parallel(n_jobs=-1)]: Done 1 out of 1 | elapsed: 0.8s finished
[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.

[CV] ... C=1000.0, total= 0.9s
[CV] C=1000.0 ...

[Parallel(n_jobs=-1)]: Done 1 out of 1 | elapsed: 1.0s finished
[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.

[CV] ... C=1000.0, total= 1.1s
[CV] C=1000.0 ...

[Parallel(n_jobs=-1)]: Done 1 out of 1 | elapsed: 1.1s finished
[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.

[CV] ... C=1000.0, total= 1.2s
[CV] C=10000.0 ...

[Parallel(n_jobs=-1)]: Done 1 out of 1 | elapsed: 1.0s finished
[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.

[CV] ... C=10000.0, total= 1.1s
[CV] C=10000.0 ...

[Parallel(n_jobs=-1)]: Done 1 out of 1 | elapsed: 1.0s finished
[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.

[CV] ... C=10000.0, total= 1.1s
[CV] C=10000.0 ...

[Parallel(n_jobs=-1)]: Done 1 out of 1 | elapsed: 0.9s finished
[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.

[CV] ... C=10000.0, total= 1.0s
[CV] C=10000.0 ...

[Parallel(n_jobs=-1)]: Done 1 out of 1 | elapsed: 1.0s finished
[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.

[CV] ... C=10000.0, total= 1.1s
[CV] C=10000.0 ...

[Parallel(n_jobs=-1)]: Done 1 out of 1 | elapsed: 0.9s finished
[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.
D:\CodeNameSolus\AppData\lib\site-

```

packages\sklearn\model_selection_validation.py:536: FitFailedWarning: Estimator fit failed. The score on this train-test partition for these parameters will be set to nan. Details:

ZeroDivisionError: float division by zero

FitFailedWarning)

[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.

[CV] ... C=10000.0, total= 1.0s

[CV] C=0 ...

[CV] ... C=0, total= 0.1s

[CV] C=0 ...

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packages\sklearn\model_selection_validation.py:536: FitFailedWarning: Estimator fit failed. The score on this train-test partition for these parameters will be set to nan. Details:

ZeroDivisionError: float division by zero

FitFailedWarning)

[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.

[CV] ... C=0, total= 1.0s

[CV] C=0 ...

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packages\sklearn\model_selection_validation.py:536: FitFailedWarning: Estimator fit failed. The score on this train-test partition for these parameters will be set to nan. Details:

ZeroDivisionError: float division by zero

FitFailedWarning)

[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.

[CV] ... C=0, total= 1.0s

[CV] C=0 ...

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packages\sklearn\model_selection_validation.py:536: FitFailedWarning: Estimator fit failed. The score on this train-test partition for these parameters will be set to nan. Details:

ZeroDivisionError: float division by zero

FitFailedWarning)

[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.

[CV] ... C=0, total= 0.9s

[CV] C=0 ...

D:\CodeNameSolus\Apps\lib\site-

packages\sklearn\model_selection_validation.py:536: FitFailedWarning: Estimator fit failed. The score on this train-test partition for these parameters will be

set to nan. Details:

ZeroDivisionError: float division by zero

FitFailedWarning)

[Parallel(n_jobs=1)]: Done 50 out of 50 | elapsed: 48.7s finished

[Parallel(n_jobs=-1)]: Using backend ThreadingBackend with 8 concurrent workers.

[CV] ... C=0, total= 0.9s

convergence after 780 epochs took 1 seconds

[Parallel(n_jobs=-1)]: Done 1 out of 1 | elapsed: 0.7s finished

[Parallel(n_jobs=-1)]: Using backend ThreadingBackend with 8 concurrent workers.

convergence after 317 epochs took 0 seconds

[Parallel(n_jobs=-1)]: Done 1 out of 1 | elapsed: 0.2s finished

[Parallel(n_jobs=-1)]: Using backend ThreadingBackend with 8 concurrent workers.

convergence after 321 epochs took 0 seconds

Trial 2

Fitting 5 folds for each of 10 candidates, totalling 50 fits

[CV] C=0.0001 ...

[Parallel(n_jobs=-1)]: Done 1 out of 1 | elapsed: 0.2s finished

[Parallel(n_jobs=1)]: Using backend SequentialBackend with 1 concurrent workers.

[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.

[Parallel(n_jobs=-1)]: Done 1 out of 1 | elapsed: 1.1s finished

[Parallel(n_jobs=1)]: Done 1 out of 1 | elapsed: 1.1s remaining: 0.0s

[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.

[CV] ... C=0.0001, total= 1.2s

[CV] C=0.0001 ...

[Parallel(n_jobs=-1)]: Done 1 out of 1 | elapsed: 0.5s finished

[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.

[CV] ... C=0.0001, total= 0.6s

[CV] C=0.0001 ...

[Parallel(n_jobs=-1)]: Done 1 out of 1 | elapsed: 0.5s finished

[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.

[CV] ... C=0.0001, total= 0.7s

[CV] C=0.0001 ...

[Parallel(n_jobs=-1)]: Done 1 out of 1 | elapsed: 0.5s finished

[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.

[CV] ... C=0.0001, total= 0.6s

[CV] C=0.0001 ...

[Parallel(n_jobs=-1)]: Done 1 out of 1 | elapsed: 0.5s finished

[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.

```

[CV] ... C=0.0001, total=    0.6s
[CV] C=0.001 ...

[Parallel(n_jobs=-1)]: Done    1 out of    1 | elapsed:    0.9s finished
[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.

[CV] ... C=0.001, total=    1.0s
[CV] C=0.001 ...

[Parallel(n_jobs=-1)]: Done    1 out of    1 | elapsed:    0.9s finished
[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.

[CV] ... C=0.001, total=    1.0s
[CV] C=0.001 ...

[Parallel(n_jobs=-1)]: Done    1 out of    1 | elapsed:    0.9s finished
[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.

[CV] ... C=0.001, total=    1.0s
[CV] C=0.001 ...

[Parallel(n_jobs=-1)]: Done    1 out of    1 | elapsed:    0.6s finished
[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.

[CV] ... C=0.001, total=    0.7s
[CV] C=0.001 ...

[Parallel(n_jobs=-1)]: Done    1 out of    1 | elapsed:    0.6s finished
[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.

[CV] ... C=0.001, total=    0.7s
[CV] C=0.01 ...

[Parallel(n_jobs=-1)]: Done    1 out of    1 | elapsed:    0.9s finished
[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.

[CV] ... C=0.01, total=    1.0s
[CV] C=0.01 ...

[Parallel(n_jobs=-1)]: Done    1 out of    1 | elapsed:    0.9s finished
[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.

[CV] ... C=0.01, total=    1.0s
[CV] C=0.01 ...

[Parallel(n_jobs=-1)]: Done    1 out of    1 | elapsed:    1.0s finished
[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.

[CV] ... C=0.01, total=    1.1s
[CV] C=0.01 ...

[Parallel(n_jobs=-1)]: Done    1 out of    1 | elapsed:    0.9s finished
[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.

[CV] ... C=0.01, total=    1.0s
[CV] C=0.01 ...

```



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[Parallel(n_jobs=-1)]: Done 1 out of 1 | elapsed: 1.0s finished
[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.

[CV] ... C=0.01, total= 1.1s
[CV] C=0.1 ...

[Parallel(n_jobs=-1)]: Done 1 out of 1 | elapsed: 0.9s finished
[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.

[CV] ... C=0.1, total= 1.0s
[CV] C=0.1 ...

[Parallel(n_jobs=-1)]: Done 1 out of 1 | elapsed: 0.8s finished
[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.

[CV] ... C=0.1, total= 0.9s
[CV] C=0.1 ...

[Parallel(n_jobs=-1)]: Done 1 out of 1 | elapsed: 1.0s finished
[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.

[CV] ... C=0.1, total= 1.1s
[CV] C=0.1 ...

[Parallel(n_jobs=-1)]: Done 1 out of 1 | elapsed: 0.9s finished
[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.

[CV] ... C=0.1, total= 1.0s
[CV] C=0.1 ...

[Parallel(n_jobs=-1)]: Done 1 out of 1 | elapsed: 1.0s finished
[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.

[CV] ... C=0.1, total= 1.1s
[CV] C=1.0 ...

[Parallel(n_jobs=-1)]: Done 1 out of 1 | elapsed: 0.9s finished
[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.

[CV] ... C=1.0, total= 1.0s
[CV] C=1.0 ...

[Parallel(n_jobs=-1)]: Done 1 out of 1 | elapsed: 0.8s finished
[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.

[CV] ... C=1.0, total= 1.0s
[CV] C=1.0 ...

[Parallel(n_jobs=-1)]: Done 1 out of 1 | elapsed: 0.9s finished
[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.

[CV] ... C=1.0, total= 1.0s
[CV] C=1.0 ...

[Parallel(n_jobs=-1)]: Done 1 out of 1 | elapsed: 0.9s finished
[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.

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[CV] ... C=1.0, total= 1.0s
[CV] C=1.0 ...

[Parallel(n_jobs=-1)]: Done 1 out of 1 | elapsed: 1.0s finished
[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.

[CV] ... C=1.0, total= 1.1s
[CV] C=10.0 ...

[Parallel(n_jobs=-1)]: Done 1 out of 1 | elapsed: 0.9s finished
[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.

[CV] ... C=10.0, total= 1.0s
[CV] C=10.0 ...

[Parallel(n_jobs=-1)]: Done 1 out of 1 | elapsed: 0.9s finished
[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.

[CV] ... C=10.0, total= 1.0s
[CV] C=10.0 ...

[Parallel(n_jobs=-1)]: Done 1 out of 1 | elapsed: 0.9s finished
[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.

[CV] ... C=10.0, total= 1.0s
[CV] C=10.0 ...

[Parallel(n_jobs=-1)]: Done 1 out of 1 | elapsed: 0.9s finished
[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.

[CV] ... C=10.0, total= 1.0s
[CV] C=10.0 ...

[Parallel(n_jobs=-1)]: Done 1 out of 1 | elapsed: 1.0s finished
[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.

[CV] ... C=10.0, total= 1.1s
[CV] C=100.0 ...

[Parallel(n_jobs=-1)]: Done 1 out of 1 | elapsed: 0.9s finished
[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.

[CV] ... C=100.0, total= 1.0s
[CV] C=100.0 ...

[Parallel(n_jobs=-1)]: Done 1 out of 1 | elapsed: 0.8s finished
[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.

[CV] ... C=100.0, total= 0.9s
[CV] C=100.0 ...

[Parallel(n_jobs=-1)]: Done 1 out of 1 | elapsed: 0.9s finished
[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.

[CV] ... C=100.0, total= 1.0s
[CV] C=100.0 ...

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[Parallel(n_jobs=-1)]: Done 1 out of 1 | elapsed: 0.8s finished
[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.

[CV] ... C=100.0, total= 0.9s
[CV] C=100.0 ...

[Parallel(n_jobs=-1)]: Done 1 out of 1 | elapsed: 1.0s finished
[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.

[CV] ... C=100.0, total= 1.1s
[CV] C=1000.0 ...

[Parallel(n_jobs=-1)]: Done 1 out of 1 | elapsed: 0.9s finished
[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.

[CV] ... C=1000.0, total= 1.0s
[CV] C=1000.0 ...

[Parallel(n_jobs=-1)]: Done 1 out of 1 | elapsed: 0.8s finished
[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.

[CV] ... C=1000.0, total= 0.9s
[CV] C=1000.0 ...

[Parallel(n_jobs=-1)]: Done 1 out of 1 | elapsed: 0.9s finished
[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.

[CV] ... C=1000.0, total= 1.0s
[CV] C=1000.0 ...

[Parallel(n_jobs=-1)]: Done 1 out of 1 | elapsed: 0.9s finished
[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.

[CV] ... C=1000.0, total= 1.0s
[CV] C=1000.0 ...

[Parallel(n_jobs=-1)]: Done 1 out of 1 | elapsed: 1.0s finished
[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.

[CV] ... C=1000.0, total= 1.1s
[CV] C=10000.0 ...

[Parallel(n_jobs=-1)]: Done 1 out of 1 | elapsed: 0.9s finished
[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.

[CV] ... C=10000.0, total= 1.0s
[CV] C=10000.0 ...

[Parallel(n_jobs=-1)]: Done 1 out of 1 | elapsed: 0.9s finished
[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.

[CV] ... C=10000.0, total= 1.0s
[CV] C=10000.0 ...

[Parallel(n_jobs=-1)]: Done 1 out of 1 | elapsed: 0.9s finished
[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.

```

```

[CV] ... C=10000.0, total= 1.0s
[CV] C=10000.0 ...

[Parallel(n_jobs=-1)]: Done 1 out of 1 | elapsed: 0.9s finished
[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.

[CV] ... C=10000.0, total= 1.0s
[CV] C=10000.0 ...

[Parallel(n_jobs=-1)]: Done 1 out of 1 | elapsed: 1.0s finished
[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.
D:\CodeNameSolus\Apps\lib\site-
packages\sklearn\model_selection\_validation.py:536: FitFailedWarning: Estimator
fit failed. The score on this train-test partition for these parameters will be
set to nan. Details:
ZeroDivisionError: float division by zero

FitFailedWarning)
[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.

[CV] ... C=10000.0, total= 1.1s
[CV] C=0 ...
[CV] ... C=0, total= 0.1s
[CV] C=0 ...

D:\CodeNameSolus\Apps\lib\site-
packages\sklearn\model_selection\_validation.py:536: FitFailedWarning: Estimator
fit failed. The score on this train-test partition for these parameters will be
set to nan. Details:
ZeroDivisionError: float division by zero

FitFailedWarning)
[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.

[CV] ... C=0, total= 1.0s
[CV] C=0 ...

D:\CodeNameSolus\Apps\lib\site-
packages\sklearn\model_selection\_validation.py:536: FitFailedWarning: Estimator
fit failed. The score on this train-test partition for these parameters will be
set to nan. Details:
ZeroDivisionError: float division by zero

FitFailedWarning)
[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.

[CV] ... C=0, total= 1.0s
[CV] C=0 ...

D:\CodeNameSolus\Apps\lib\site-
packages\sklearn\model_selection\_validation.py:536: FitFailedWarning: Estimator
fit failed. The score on this train-test partition for these parameters will be

```

set to nan. Details:

ZeroDivisionError: float division by zero

FitFailedWarning)

[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.

[CV] ... C=0, total= 1.0s

[CV] C=0 ...

D:\CodeNameSolus\Apps\lib\site-

packages\sklearn\model_selection_validation.py:536: FitFailedWarning: Estimator fit failed. The score on this train-test partition for these parameters will be set to nan. Details:

ZeroDivisionError: float division by zero

FitFailedWarning)

[Parallel(n_jobs=1)]: Done 50 out of 50 | elapsed: 48.1s finished

[Parallel(n_jobs=-1)]: Using backend ThreadingBackend with 8 concurrent workers.

[CV] ... C=0, total= 1.1s

convergence after 741 epochs took 0 seconds

[Parallel(n_jobs=-1)]: Done 1 out of 1 | elapsed: 0.7s finished

[Parallel(n_jobs=-1)]: Using backend ThreadingBackend with 8 concurrent workers.

convergence after 300 epochs took 0 seconds

[Parallel(n_jobs=-1)]: Done 1 out of 1 | elapsed: 0.2s finished

[Parallel(n_jobs=-1)]: Using backend ThreadingBackend with 8 concurrent workers.

convergence after 302 epochs took 0 seconds

Trial 3

Fitting 5 folds for each of 10 candidates, totalling 50 fits

[CV] C=0.0001 ...

[Parallel(n_jobs=-1)]: Done 1 out of 1 | elapsed: 0.3s finished

[Parallel(n_jobs=1)]: Using backend SequentialBackend with 1 concurrent workers.

[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.

[Parallel(n_jobs=-1)]: Done 1 out of 1 | elapsed: 1.1s finished

[Parallel(n_jobs=1)]: Done 1 out of 1 | elapsed: 1.1s remaining: 0.0s

[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.

[CV] ... C=0.0001, total= 1.2s

[CV] C=0.0001 ...

[Parallel(n_jobs=-1)]: Done 1 out of 1 | elapsed: 0.6s finished

[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.

[CV] ... C=0.0001, total= 0.7s

[CV] C=0.0001 ...

[Parallel(n_jobs=-1)]: Done 1 out of 1 | elapsed: 0.5s finished

[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.

```

[CV] ... C=0.0001, total= 0.6s
[CV] C=0.0001 ...

[Parallel(n_jobs=-1)]: Done 1 out of 1 | elapsed: 0.5s finished
[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.

[CV] ... C=0.0001, total= 0.7s
[CV] C=0.0001 ...

[Parallel(n_jobs=-1)]: Done 1 out of 1 | elapsed: 0.6s finished
[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.

[CV] ... C=0.0001, total= 0.7s
[CV] C=0.001 ...

[Parallel(n_jobs=-1)]: Done 1 out of 1 | elapsed: 1.0s finished
[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.

[CV] ... C=0.001, total= 1.1s
[CV] C=0.001 ...

[Parallel(n_jobs=-1)]: Done 1 out of 1 | elapsed: 1.0s finished
[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.

[CV] ... C=0.001, total= 1.1s
[CV] C=0.001 ...

[Parallel(n_jobs=-1)]: Done 1 out of 1 | elapsed: 0.9s finished
[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.

[CV] ... C=0.001, total= 1.0s
[CV] C=0.001 ...

[Parallel(n_jobs=-1)]: Done 1 out of 1 | elapsed: 0.6s finished
[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.

[CV] ... C=0.001, total= 0.7s
[CV] C=0.001 ...

[Parallel(n_jobs=-1)]: Done 1 out of 1 | elapsed: 0.6s finished
[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.

[CV] ... C=0.001, total= 0.7s
[CV] C=0.01 ...

[Parallel(n_jobs=-1)]: Done 1 out of 1 | elapsed: 0.9s finished
[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.

[CV] ... C=0.01, total= 1.0s
[CV] C=0.01 ...

[Parallel(n_jobs=-1)]: Done 1 out of 1 | elapsed: 0.9s finished
[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.

[CV] ... C=0.01, total= 1.0s
[CV] C=0.01 ...

```

```

[Parallel(n_jobs=-1)]: Done 1 out of 1 | elapsed: 0.9s finished
[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.

[CV] ... C=0.01, total= 1.0s
[CV] C=0.01 ...

[Parallel(n_jobs=-1)]: Done 1 out of 1 | elapsed: 0.9s finished
[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.

[CV] ... C=0.01, total= 1.0s
[CV] C=0.01 ...

[Parallel(n_jobs=-1)]: Done 1 out of 1 | elapsed: 0.9s finished
[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.

[CV] ... C=0.01, total= 1.0s
[CV] C=0.1 ...

[Parallel(n_jobs=-1)]: Done 1 out of 1 | elapsed: 1.0s finished
[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.

[CV] ... C=0.1, total= 1.1s
[CV] C=0.1 ...

[Parallel(n_jobs=-1)]: Done 1 out of 1 | elapsed: 1.0s finished
[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.

[CV] ... C=0.1, total= 1.1s
[CV] C=0.1 ...

[Parallel(n_jobs=-1)]: Done 1 out of 1 | elapsed: 0.9s finished
[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.

[CV] ... C=0.1, total= 1.0s
[CV] C=0.1 ...

[Parallel(n_jobs=-1)]: Done 1 out of 1 | elapsed: 1.0s finished
[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.

[CV] ... C=0.1, total= 1.1s
[CV] C=0.1 ...

[Parallel(n_jobs=-1)]: Done 1 out of 1 | elapsed: 1.0s finished
[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.

[CV] ... C=0.1, total= 1.1s
[CV] C=1.0 ...

[Parallel(n_jobs=-1)]: Done 1 out of 1 | elapsed: 1.0s finished
[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.

[CV] ... C=1.0, total= 1.1s
[CV] C=1.0 ...

[Parallel(n_jobs=-1)]: Done 1 out of 1 | elapsed: 1.0s finished
[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.

```

```

[CV] ... C=1.0, total= 1.1s
[CV] C=1.0 ...

[Parallel(n_jobs=-1)]: Done 1 out of 1 | elapsed: 0.9s finished
[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.

[CV] ... C=1.0, total= 1.0s
[CV] C=1.0 ...

[Parallel(n_jobs=-1)]: Done 1 out of 1 | elapsed: 1.0s finished
[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.

[CV] ... C=1.0, total= 1.1s
[CV] C=1.0 ...

[Parallel(n_jobs=-1)]: Done 1 out of 1 | elapsed: 1.0s finished
[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.

[CV] ... C=1.0, total= 1.1s
[CV] C=10.0 ...

[Parallel(n_jobs=-1)]: Done 1 out of 1 | elapsed: 1.0s finished
[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.

[CV] ... C=10.0, total= 1.1s
[CV] C=10.0 ...

[Parallel(n_jobs=-1)]: Done 1 out of 1 | elapsed: 1.0s finished
[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.

[CV] ... C=10.0, total= 1.1s
[CV] C=10.0 ...

[Parallel(n_jobs=-1)]: Done 1 out of 1 | elapsed: 0.9s finished
[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.

[CV] ... C=10.0, total= 1.0s
[CV] C=10.0 ...

[Parallel(n_jobs=-1)]: Done 1 out of 1 | elapsed: 1.0s finished
[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.

[CV] ... C=10.0, total= 1.1s
[CV] C=10.0 ...

[Parallel(n_jobs=-1)]: Done 1 out of 1 | elapsed: 0.9s finished
[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.

[CV] ... C=10.0, total= 1.0s
[CV] C=100.0 ...

[Parallel(n_jobs=-1)]: Done 1 out of 1 | elapsed: 1.0s finished
[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.

[CV] ... C=100.0, total= 1.1s
[CV] C=100.0 ...

```



```

[Parallel(n_jobs=-1)]: Done 1 out of 1 | elapsed: 1.1s finished
[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.

[CV] ... C=100.0, total= 1.2s
[CV] C=100.0 ...

[Parallel(n_jobs=-1)]: Done 1 out of 1 | elapsed: 0.9s finished
[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.

[CV] ... C=100.0, total= 1.0s
[CV] C=100.0 ...

[Parallel(n_jobs=-1)]: Done 1 out of 1 | elapsed: 1.0s finished
[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.

[CV] ... C=100.0, total= 1.1s
[CV] C=100.0 ...

[Parallel(n_jobs=-1)]: Done 1 out of 1 | elapsed: 0.9s finished
[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.

[CV] ... C=100.0, total= 1.0s
[CV] C=1000.0 ...

[Parallel(n_jobs=-1)]: Done 1 out of 1 | elapsed: 1.0s finished
[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.

[CV] ... C=1000.0, total= 1.1s
[CV] C=1000.0 ...

[Parallel(n_jobs=-1)]: Done 1 out of 1 | elapsed: 1.0s finished
[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.

[CV] ... C=1000.0, total= 1.1s
[CV] C=1000.0 ...

[Parallel(n_jobs=-1)]: Done 1 out of 1 | elapsed: 0.9s finished
[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.

[CV] ... C=1000.0, total= 1.0s
[CV] C=1000.0 ...

[Parallel(n_jobs=-1)]: Done 1 out of 1 | elapsed: 1.0s finished
[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.

[CV] ... C=1000.0, total= 1.1s
[CV] C=1000.0 ...

[Parallel(n_jobs=-1)]: Done 1 out of 1 | elapsed: 1.0s finished
[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.

[CV] ... C=1000.0, total= 1.1s
[CV] C=10000.0 ...

[Parallel(n_jobs=-1)]: Done 1 out of 1 | elapsed: 1.0s finished
[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.

```

```

[CV] ... C=10000.0, total= 1.1s
[CV] C=10000.0 ...

[Parallel(n_jobs=-1)]: Done 1 out of 1 | elapsed: 1.1s finished
[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.

[CV] ... C=10000.0, total= 1.2s
[CV] C=10000.0 ...

[Parallel(n_jobs=-1)]: Done 1 out of 1 | elapsed: 0.9s finished
[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.

[CV] ... C=10000.0, total= 1.0s
[CV] C=10000.0 ...

[Parallel(n_jobs=-1)]: Done 1 out of 1 | elapsed: 1.0s finished
[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.

[CV] ... C=10000.0, total= 1.1s
[CV] C=10000.0 ...

[Parallel(n_jobs=-1)]: Done 1 out of 1 | elapsed: 0.9s finished
[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.
D:\CodeNameSolus\Apps\lib\site-
packages\sklearn\model_selection\_validation.py:536: FitFailedWarning: Estimator
fit failed. The score on this train-test partition for these parameters will be
set to nan. Details:
ZeroDivisionError: float division by zero

FitFailedWarning)
[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.

[CV] ... C=10000.0, total= 1.0s
[CV] C=0 ...
[CV] ... C=0, total= 0.1s
[CV] C=0 ...

D:\CodeNameSolus\Apps\lib\site-
packages\sklearn\model_selection\_validation.py:536: FitFailedWarning: Estimator
fit failed. The score on this train-test partition for these parameters will be
set to nan. Details:
ZeroDivisionError: float division by zero

FitFailedWarning)
[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.

[CV] ... C=0, total= 0.9s
[CV] C=0 ...

D:\CodeNameSolus\Apps\lib\site-
packages\sklearn\model_selection\_validation.py:536: FitFailedWarning: Estimator
fit failed. The score on this train-test partition for these parameters will be
set to nan. Details:

```

ZeroDivisionError: float division by zero

FitFailedWarning)

[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.

[CV] ... C=0, total= 0.9s

[CV] C=0 ...

D:\CodeNameSolus\Apps\lib\site-

packages\sklearn\model_selection_validation.py:536: FitFailedWarning: Estimator fit failed. The score on this train-test partition for these parameters will be set to nan. Details:

ZeroDivisionError: float division by zero

FitFailedWarning)

[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.

[CV] ... C=0, total= 0.9s

[CV] C=0 ...

D:\CodeNameSolus\Apps\lib\site-

packages\sklearn\model_selection_validation.py:536: FitFailedWarning: Estimator fit failed. The score on this train-test partition for these parameters will be set to nan. Details:

ZeroDivisionError: float division by zero

FitFailedWarning)

[Parallel(n_jobs=1)]: Done 50 out of 50 | elapsed: 49.8s finished

[Parallel(n_jobs=-1)]: Using backend ThreadingBackend with 8 concurrent workers.

[CV] ... C=0, total= 1.0s

convergence after 770 epochs took 1 seconds

[Parallel(n_jobs=-1)]: Done 1 out of 1 | elapsed: 0.7s finished

[Parallel(n_jobs=-1)]: Using backend ThreadingBackend with 8 concurrent workers.

convergence after 326 epochs took 0 seconds

[Parallel(n_jobs=-1)]: Done 1 out of 1 | elapsed: 0.2s finished

[Parallel(n_jobs=-1)]: Using backend ThreadingBackend with 8 concurrent workers.

convergence after 326 epochs took 0 seconds

Trial 4

Fitting 5 folds for each of 10 candidates, totalling 50 fits

[CV] C=0.0001 ...

[Parallel(n_jobs=-1)]: Done 1 out of 1 | elapsed: 0.2s finished

[Parallel(n_jobs=1)]: Using backend SequentialBackend with 1 concurrent workers.

[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.

[Parallel(n_jobs=-1)]: Done 1 out of 1 | elapsed: 1.0s finished

[Parallel(n_jobs=1)]: Done 1 out of 1 | elapsed: 1.0s remaining: 0.0s

[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.

```

[CV] ... C=0.0001, total= 1.1s
[CV] C=0.0001 ...

[Parallel(n_jobs=-1)]: Done 1 out of 1 | elapsed: 0.5s finished
[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.

[CV] ... C=0.0001, total= 0.6s
[CV] C=0.0001 ...

[Parallel(n_jobs=-1)]: Done 1 out of 1 | elapsed: 0.5s finished
[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.

[CV] ... C=0.0001, total= 0.6s
[CV] C=0.0001 ...

[Parallel(n_jobs=-1)]: Done 1 out of 1 | elapsed: 0.5s finished
[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.

[CV] ... C=0.0001, total= 0.6s
[CV] C=0.0001 ...

[Parallel(n_jobs=-1)]: Done 1 out of 1 | elapsed: 0.5s finished
[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.

[CV] ... C=0.0001, total= 0.6s
[CV] C=0.001 ...

[Parallel(n_jobs=-1)]: Done 1 out of 1 | elapsed: 0.9s finished
[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.

[CV] ... C=0.001, total= 1.0s
[CV] C=0.001 ...

[Parallel(n_jobs=-1)]: Done 1 out of 1 | elapsed: 0.9s finished
[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.

[CV] ... C=0.001, total= 1.0s
[CV] C=0.001 ...

[Parallel(n_jobs=-1)]: Done 1 out of 1 | elapsed: 0.9s finished
[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.

[CV] ... C=0.001, total= 1.0s
[CV] C=0.001 ...

[Parallel(n_jobs=-1)]: Done 1 out of 1 | elapsed: 0.9s finished
[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.

[CV] ... C=0.001, total= 1.0s
[CV] C=0.001 ...

[Parallel(n_jobs=-1)]: Done 1 out of 1 | elapsed: 0.6s finished
[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.

[CV] ... C=0.001, total= 0.7s
[CV] C=0.001 ...

[Parallel(n_jobs=-1)]: Done 1 out of 1 | elapsed: 0.6s finished
[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.

[CV] ... C=0.001, total= 0.7s
[CV] C=0.01 ...

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[Parallel(n_jobs=-1)]: Done 1 out of 1 | elapsed: 0.9s finished
[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.

[CV] ... C=0.01, total= 1.0s
[CV] C=0.01 ...

[Parallel(n_jobs=-1)]: Done 1 out of 1 | elapsed: 0.9s finished
[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.

[CV] ... C=0.01, total= 1.0s
[CV] C=0.01 ...

[Parallel(n_jobs=-1)]: Done 1 out of 1 | elapsed: 1.0s finished
[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.

[CV] ... C=0.01, total= 1.1s
[CV] C=0.01 ...

[Parallel(n_jobs=-1)]: Done 1 out of 1 | elapsed: 0.9s finished
[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.

[CV] ... C=0.01, total= 1.0s
[CV] C=0.01 ...

[Parallel(n_jobs=-1)]: Done 1 out of 1 | elapsed: 1.0s finished
[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.

[CV] ... C=0.01, total= 1.1s
[CV] C=0.1 ...

[Parallel(n_jobs=-1)]: Done 1 out of 1 | elapsed: 0.9s finished
[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.

[CV] ... C=0.1, total= 1.1s
[CV] C=0.1 ...

[Parallel(n_jobs=-1)]: Done 1 out of 1 | elapsed: 0.9s finished
[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.

[CV] ... C=0.1, total= 1.0s
[CV] C=0.1 ...

[Parallel(n_jobs=-1)]: Done 1 out of 1 | elapsed: 1.0s finished
[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.

[CV] ... C=0.1, total= 1.1s
[CV] C=0.1 ...

[Parallel(n_jobs=-1)]: Done 1 out of 1 | elapsed: 1.0s finished
[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.

[CV] ... C=0.1, total= 1.1s
[CV] C=0.1 ...

[Parallel(n_jobs=-1)]: Done 1 out of 1 | elapsed: 1.1s finished
[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.

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[CV] ... C=0.1, total= 1.2s
[CV] C=1.0 ...

[Parallel(n_jobs=-1)]: Done 1 out of 1 | elapsed: 0.9s finished
[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.

[CV] ... C=1.0, total= 1.0s
[CV] C=1.0 ...

[Parallel(n_jobs=-1)]: Done 1 out of 1 | elapsed: 0.8s finished
[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.

[CV] ... C=1.0, total= 0.9s
[CV] C=1.0 ...

[Parallel(n_jobs=-1)]: Done 1 out of 1 | elapsed: 1.0s finished
[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.

[CV] ... C=1.0, total= 1.1s
[CV] C=1.0 ...

[Parallel(n_jobs=-1)]: Done 1 out of 1 | elapsed: 0.9s finished
[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.

[CV] ... C=1.0, total= 1.0s
[CV] C=1.0 ...

[Parallel(n_jobs=-1)]: Done 1 out of 1 | elapsed: 1.0s finished
[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.

[CV] ... C=1.0, total= 1.1s
[CV] C=10.0 ...

[Parallel(n_jobs=-1)]: Done 1 out of 1 | elapsed: 0.8s finished
[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.

[CV] ... C=10.0, total= 0.9s
[CV] C=10.0 ...

[Parallel(n_jobs=-1)]: Done 1 out of 1 | elapsed: 0.7s finished
[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.

[CV] ... C=10.0, total= 0.8s
[CV] C=10.0 ...

[Parallel(n_jobs=-1)]: Done 1 out of 1 | elapsed: 0.9s finished
[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.

[CV] ... C=10.0, total= 1.0s
[CV] C=10.0 ...

[Parallel(n_jobs=-1)]: Done 1 out of 1 | elapsed: 0.8s finished
[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.

[CV] ... C=10.0, total= 0.9s
[CV] C=10.0 ...

```

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[Parallel(n_jobs=-1)]: Done 1 out of 1 | elapsed: 1.0s finished
[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.

[CV] ... C=10.0, total= 1.1s
[CV] C=100.0 ...

[Parallel(n_jobs=-1)]: Done 1 out of 1 | elapsed: 0.8s finished
[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.

[CV] ... C=100.0, total= 0.9s
[CV] C=100.0 ...

[Parallel(n_jobs=-1)]: Done 1 out of 1 | elapsed: 0.7s finished
[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.

[CV] ... C=100.0, total= 0.8s
[CV] C=100.0 ...

[Parallel(n_jobs=-1)]: Done 1 out of 1 | elapsed: 0.9s finished
[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.

[CV] ... C=100.0, total= 1.0s
[CV] C=100.0 ...

[Parallel(n_jobs=-1)]: Done 1 out of 1 | elapsed: 0.9s finished
[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.

[CV] ... C=100.0, total= 1.0s
[CV] C=100.0 ...

[Parallel(n_jobs=-1)]: Done 1 out of 1 | elapsed: 0.9s finished
[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.

[CV] ... C=100.0, total= 1.1s
[CV] C=1000.0 ...

[Parallel(n_jobs=-1)]: Done 1 out of 1 | elapsed: 0.8s finished
[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.

[CV] ... C=1000.0, total= 0.9s
[CV] C=1000.0 ...

[Parallel(n_jobs=-1)]: Done 1 out of 1 | elapsed: 0.7s finished
[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.

[CV] ... C=1000.0, total= 0.8s
[CV] C=1000.0 ...

[Parallel(n_jobs=-1)]: Done 1 out of 1 | elapsed: 0.9s finished
[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.

[CV] ... C=1000.0, total= 1.0s
[CV] C=1000.0 ...

[Parallel(n_jobs=-1)]: Done 1 out of 1 | elapsed: 0.8s finished
[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.

```

```

[CV] ... C=1000.0, total= 0.9s
[CV] C=1000.0 ...

[Parallel(n_jobs=-1)]: Done 1 out of 1 | elapsed: 0.9s finished
[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.

[CV] ... C=1000.0, total= 1.1s
[CV] C=10000.0 ...

[Parallel(n_jobs=-1)]: Done 1 out of 1 | elapsed: 0.9s finished
[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.

[CV] ... C=10000.0, total= 1.0s
[CV] C=10000.0 ...

[Parallel(n_jobs=-1)]: Done 1 out of 1 | elapsed: 0.7s finished
[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.

[CV] ... C=10000.0, total= 0.8s
[CV] C=10000.0 ...

[Parallel(n_jobs=-1)]: Done 1 out of 1 | elapsed: 1.0s finished
[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.

[CV] ... C=10000.0, total= 1.1s
[CV] C=10000.0 ...

[Parallel(n_jobs=-1)]: Done 1 out of 1 | elapsed: 0.9s finished
[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.

[CV] ... C=10000.0, total= 1.0s
[CV] C=10000.0 ...

[Parallel(n_jobs=-1)]: Done 1 out of 1 | elapsed: 1.0s finished
[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.
D:\CodeNameSolus\Apps\lib\site-
packages\sklearn\model_selection\_validation.py:536: FitFailedWarning: Estimator
fit failed. The score on this train-test partition for these parameters will be
set to nan. Details:
ZeroDivisionError: float division by zero

FitFailedWarning)
[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.

[CV] ... C=10000.0, total= 1.1s
[CV] C=0 ...
[CV] ... C=0, total= 0.1s
[CV] C=0 ...

D:\CodeNameSolus\Apps\lib\site-
packages\sklearn\model_selection\_validation.py:536: FitFailedWarning: Estimator
fit failed. The score on this train-test partition for these parameters will be
set to nan. Details:
ZeroDivisionError: float division by zero

```



```

FitFailedWarning)
[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.

[CV] ... C=0, total=    1.1s
[CV] C=0 ...

D:\CodeNameSolus\Apps\lib\site-
packages\sklearn\model_selection\_validation.py:536: FitFailedWarning: Estimator
fit failed. The score on this train-test partition for these parameters will be
set to nan. Details:
ZeroDivisionError: float division by zero

FitFailedWarning)
[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.

[CV] ... C=0, total=    1.0s
[CV] C=0 ...

D:\CodeNameSolus\Apps\lib\site-
packages\sklearn\model_selection\_validation.py:536: FitFailedWarning: Estimator
fit failed. The score on this train-test partition for these parameters will be
set to nan. Details:
ZeroDivisionError: float division by zero

FitFailedWarning)
[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.

[CV] ... C=0, total=    1.0s
[CV] C=0 ...

D:\CodeNameSolus\Apps\lib\site-
packages\sklearn\model_selection\_validation.py:536: FitFailedWarning: Estimator
fit failed. The score on this train-test partition for these parameters will be
set to nan. Details:
ZeroDivisionError: float division by zero

FitFailedWarning)
[Parallel(n_jobs=1)]: Done 50 out of 50 | elapsed: 47.1s finished
[Parallel(n_jobs=-1)]: Using backend ThreadingBackend with 8 concurrent workers.

[CV] ... C=0, total=    0.9s
convergence after 755 epochs took 1 seconds

[Parallel(n_jobs=-1)]: Done 1 out of 1 | elapsed: 0.6s finished
[Parallel(n_jobs=-1)]: Using backend ThreadingBackend with 8 concurrent workers.
convergence after 313 epochs took 0 seconds

[Parallel(n_jobs=-1)]: Done 1 out of 1 | elapsed: 0.2s finished
[Parallel(n_jobs=-1)]: Using backend ThreadingBackend with 8 concurrent workers.

```

convergence after 315 epochs took 1 seconds

Trial 5

Fitting 5 folds for each of 10 candidates, totalling 50 fits

[CV] C=0.0001 ...

[Parallel(n_jobs=-1)]: Done 1 out of 1 | elapsed: 0.2s finished

[Parallel(n_jobs=1)]: Using backend SequentialBackend with 1 concurrent workers.

[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.

[Parallel(n_jobs=-1)]: Done 1 out of 1 | elapsed: 1.0s finished

[Parallel(n_jobs=1)]: Done 1 out of 1 | elapsed: 1.0s remaining: 0.0s

[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.

[CV] ... C=0.0001, total= 1.1s

[CV] C=0.0001 ...

[Parallel(n_jobs=-1)]: Done 1 out of 1 | elapsed: 0.5s finished

[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.

[CV] ... C=0.0001, total= 0.6s

[CV] C=0.0001 ...

[Parallel(n_jobs=-1)]: Done 1 out of 1 | elapsed: 0.5s finished

[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.

[CV] ... C=0.0001, total= 0.6s

[CV] C=0.0001 ...

[Parallel(n_jobs=-1)]: Done 1 out of 1 | elapsed: 0.5s finished

[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.

[CV] ... C=0.0001, total= 0.6s

[CV] C=0.0001 ...

[Parallel(n_jobs=-1)]: Done 1 out of 1 | elapsed: 0.5s finished

[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.

[CV] ... C=0.0001, total= 0.6s

[CV] C=0.001 ...

[Parallel(n_jobs=-1)]: Done 1 out of 1 | elapsed: 0.9s finished

[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.

[CV] ... C=0.001, total= 1.0s

[CV] C=0.001 ...

[Parallel(n_jobs=-1)]: Done 1 out of 1 | elapsed: 0.9s finished

[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.

[CV] ... C=0.001, total= 1.0s

[CV] C=0.001 ...

[Parallel(n_jobs=-1)]: Done 1 out of 1 | elapsed: 0.9s finished

[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.

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[CV] ... C=0.001, total= 1.0s
[CV] C=0.001 ...

[Parallel(n_jobs=-1)]: Done 1 out of 1 | elapsed: 0.5s finished
[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.

[CV] ... C=0.001, total= 0.6s
[CV] C=0.001 ...

[Parallel(n_jobs=-1)]: Done 1 out of 1 | elapsed: 0.5s finished
[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.

[CV] ... C=0.001, total= 0.6s
[CV] C=0.01 ...

[Parallel(n_jobs=-1)]: Done 1 out of 1 | elapsed: 0.8s finished
[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.

[CV] ... C=0.01, total= 0.9s
[CV] C=0.01 ...

[Parallel(n_jobs=-1)]: Done 1 out of 1 | elapsed: 0.9s finished
[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.

[CV] ... C=0.01, total= 1.0s
[CV] C=0.01 ...

[Parallel(n_jobs=-1)]: Done 1 out of 1 | elapsed: 0.9s finished
[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.

[CV] ... C=0.01, total= 1.0s
[CV] C=0.01 ...

[Parallel(n_jobs=-1)]: Done 1 out of 1 | elapsed: 0.8s finished
[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.

[CV] ... C=0.01, total= 0.9s
[CV] C=0.01 ...

[Parallel(n_jobs=-1)]: Done 1 out of 1 | elapsed: 0.8s finished
[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.

[CV] ... C=0.01, total= 1.0s
[CV] C=0.1 ...

[Parallel(n_jobs=-1)]: Done 1 out of 1 | elapsed: 0.8s finished
[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.

[CV] ... C=0.1, total= 0.9s
[CV] C=0.1 ...

[Parallel(n_jobs=-1)]: Done 1 out of 1 | elapsed: 0.9s finished
[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.

[CV] ... C=0.1, total= 1.0s
[CV] C=0.1 ...

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[Parallel(n_jobs=-1)]: Done 1 out of 1 | elapsed: 0.9s finished
[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.

[CV] ... C=0.1, total= 1.0s
[CV] C=0.1 ...

[Parallel(n_jobs=-1)]: Done 1 out of 1 | elapsed: 0.8s finished
[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.

[CV] ... C=0.1, total= 0.9s
[CV] C=0.1 ...

[Parallel(n_jobs=-1)]: Done 1 out of 1 | elapsed: 1.0s finished
[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.

[CV] ... C=0.1, total= 1.1s
[CV] C=1.0 ...

[Parallel(n_jobs=-1)]: Done 1 out of 1 | elapsed: 0.8s finished
[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.

[CV] ... C=1.0, total= 0.9s
[CV] C=1.0 ...

[Parallel(n_jobs=-1)]: Done 1 out of 1 | elapsed: 0.8s finished
[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.

[CV] ... C=1.0, total= 1.0s
[CV] C=1.0 ...

[Parallel(n_jobs=-1)]: Done 1 out of 1 | elapsed: 0.9s finished
[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.

[CV] ... C=1.0, total= 1.0s
[CV] C=1.0 ...

[Parallel(n_jobs=-1)]: Done 1 out of 1 | elapsed: 0.8s finished
[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.

[CV] ... C=1.0, total= 0.9s
[CV] C=1.0 ...

[Parallel(n_jobs=-1)]: Done 1 out of 1 | elapsed: 0.8s finished
[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.

[CV] ... C=1.0, total= 0.9s
[CV] C=10.0 ...

[Parallel(n_jobs=-1)]: Done 1 out of 1 | elapsed: 0.8s finished
[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.

[CV] ... C=10.0, total= 0.9s
[CV] C=10.0 ...

[Parallel(n_jobs=-1)]: Done 1 out of 1 | elapsed: 0.8s finished
[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.

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[CV] ... C=10.0, total=    0.9s
[CV] C=10.0 ...

[Parallel(n_jobs=-1)]: Done    1 out of    1 | elapsed:    1.0s finished
[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.

[CV] ... C=10.0, total=    1.1s
[CV] C=10.0 ...

[Parallel(n_jobs=-1)]: Done    1 out of    1 | elapsed:    0.8s finished
[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.

[CV] ... C=10.0, total=    0.9s
[CV] C=10.0 ...

[Parallel(n_jobs=-1)]: Done    1 out of    1 | elapsed:    0.8s finished
[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.

[CV] ... C=10.0, total=    0.9s
[CV] C=100.0 ...

[Parallel(n_jobs=-1)]: Done    1 out of    1 | elapsed:    0.8s finished
[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.

[CV] ... C=100.0, total=    0.9s
[CV] C=100.0 ...

[Parallel(n_jobs=-1)]: Done    1 out of    1 | elapsed:    0.8s finished
[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.

[CV] ... C=100.0, total=    0.9s
[CV] C=100.0 ...

[Parallel(n_jobs=-1)]: Done    1 out of    1 | elapsed:    0.9s finished
[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.

[CV] ... C=100.0, total=    1.0s
[CV] C=100.0 ...

[Parallel(n_jobs=-1)]: Done    1 out of    1 | elapsed:    0.8s finished
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[CV] ... C=100.0, total=    0.9s
[CV] C=100.0 ...

[Parallel(n_jobs=-1)]: Done    1 out of    1 | elapsed:    0.8s finished
[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.

[CV] ... C=100.0, total=    0.9s
[CV] C=1000.0 ...

[Parallel(n_jobs=-1)]: Done    1 out of    1 | elapsed:    0.9s finished
[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.

[CV] ... C=1000.0, total=    1.0s
[CV] C=1000.0 ...

```

```

[Parallel(n_jobs=-1)]: Done 1 out of 1 | elapsed: 0.8s finished
[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.

[CV] ... C=1000.0, total= 0.9s
[CV] C=1000.0 ...

[Parallel(n_jobs=-1)]: Done 1 out of 1 | elapsed: 0.9s finished
[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.

[CV] ... C=1000.0, total= 1.0s
[CV] C=1000.0 ...

[Parallel(n_jobs=-1)]: Done 1 out of 1 | elapsed: 0.8s finished
[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.

[CV] ... C=1000.0, total= 0.9s
[CV] C=1000.0 ...

[Parallel(n_jobs=-1)]: Done 1 out of 1 | elapsed: 0.8s finished
[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.

[CV] ... C=1000.0, total= 0.9s
[CV] C=10000.0 ...

[Parallel(n_jobs=-1)]: Done 1 out of 1 | elapsed: 0.8s finished
[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.

[CV] ... C=10000.0, total= 0.9s
[CV] C=10000.0 ...

[Parallel(n_jobs=-1)]: Done 1 out of 1 | elapsed: 0.8s finished
[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.

[CV] ... C=10000.0, total= 1.0s
[CV] C=10000.0 ...

[Parallel(n_jobs=-1)]: Done 1 out of 1 | elapsed: 0.9s finished
[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.

[CV] ... C=10000.0, total= 1.0s
[CV] C=10000.0 ...

[Parallel(n_jobs=-1)]: Done 1 out of 1 | elapsed: 0.9s finished
[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.

[CV] ... C=10000.0, total= 1.0s
[CV] C=10000.0 ...

[Parallel(n_jobs=-1)]: Done 1 out of 1 | elapsed: 0.8s finished
[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.
D:\CodeNameSolus\Apps\lib\site-
packages\sklearn\model_selection\_validation.py:536: FitFailedWarning: Estimator
fit failed. The score on this train-test partition for these parameters will be
set to nan. Details:
ZeroDivisionError: float division by zero

```

```

FitFailedWarning)
[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.
[CV] ... C=10000.0, total=    0.9s
[CV] C=0 ...
[CV] ... C=0, total=    0.1s
[CV] C=0 ...

D:\CodeNameSolus\Apps\lib\site-
packages\sklearn\model_selection\_validation.py:536: FitFailedWarning: Estimator
fit failed. The score on this train-test partition for these parameters will be
set to nan. Details:
ZeroDivisionError: float division by zero

FitFailedWarning)
[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.
[CV] ... C=0, total=    1.0s
[CV] C=0 ...

D:\CodeNameSolus\Apps\lib\site-
packages\sklearn\model_selection\_validation.py:536: FitFailedWarning: Estimator
fit failed. The score on this train-test partition for these parameters will be
set to nan. Details:
ZeroDivisionError: float division by zero

FitFailedWarning)
[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.
[CV] ... C=0, total=    1.0s
[CV] C=0 ...

D:\CodeNameSolus\Apps\lib\site-
packages\sklearn\model_selection\_validation.py:536: FitFailedWarning: Estimator
fit failed. The score on this train-test partition for these parameters will be
set to nan. Details:
ZeroDivisionError: float division by zero

FitFailedWarning)
[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.
[CV] ... C=0, total=    1.0s
[CV] C=0 ...

D:\CodeNameSolus\Apps\lib\site-
packages\sklearn\model_selection\_validation.py:536: FitFailedWarning: Estimator
fit failed. The score on this train-test partition for these parameters will be
set to nan. Details:
ZeroDivisionError: float division by zero

FitFailedWarning)

```

```
[Parallel(n_jobs=1)]: Done 50 out of 50 | elapsed: 45.2s finished
[Parallel(n_jobs=-1)]: Using backend ThreadingBackend with 8 concurrent workers.

[CV] ... C=0, total= 0.9s
convergence after 721 epochs took 1 seconds

[Parallel(n_jobs=-1)]: Done 1 out of 1 | elapsed: 0.7s finished
[Parallel(n_jobs=-1)]: Using backend ThreadingBackend with 8 concurrent workers.

convergence after 294 epochs took 0 seconds

[Parallel(n_jobs=-1)]: Done 1 out of 1 | elapsed: 0.2s finished
[Parallel(n_jobs=-1)]: Using backend ThreadingBackend with 8 concurrent workers.

convergence after 294 epochs took 0 seconds

[Parallel(n_jobs=-1)]: Done 1 out of 1 | elapsed: 0.2s finished
```

```
[98]: metrics_letter_P1_LR
```

```
[98]: array([[0.9614, 0.5, 0.5, 0.96266667, 0.5, 0.5],
             [0.9604, 0.5, 0.5, 0.963, 0.5, 0.5],
             [0.9634, 0.5, 0.5, 0.962, 0.5, 0.5],
             [0.96, 0.5, 0.5, 0.96313333, 0.5, 0.5],
             [0.9584, 0.5, 0.5, 0.96366667, 0.5, 0.5]])
```

RF: LETTER P1

```
[50]: metrics_letter_P1_RF = np.zeros((5, 6))

for i in range(5):
    print("\n Trial", i+1)
    # randomly split the data. size of training data will be 5000
    X_train, X_test, Y_train, Y_test = train_test_split(X_letter, Y_letter_P1,
    ↪ train_size = 5000)

    # initialize the classifier
    classifier_RF = RandomForestClassifier(n_estimators = 1024, verbose = 0,
    ↪ n_jobs = -1)

    Feature_list = [1, 2, 4, 6, 8, 12]

    parameters = {'max_features': Feature_list}
```



```

search_clf = GridSearchCV(classifier_RF, parameters, cv =
↳StratifiedKFold(n_splits = 5),
                                scoring = ['accuracy', 'roc_auc_ovr', 'f1_micro'],
↳refit = False, verbose = 0)
match_model = search_clf.fit(X_train, Y_train)

match_param = match_model.cv_results_['params'][np.argmin(match_model.
↳cv_results_['rank_test_roc_auc_ovr'])]
classifier_RF.set_params(**match_param)
classifier_RF.fit(X_train, Y_train)
Y_pred_train_auc = classifier_RF.predict(X_train)
Y_pred_test_auc = classifier_RF.predict(X_test)
metrics_letter_P1_RF[i, 2] = roc_auc_score(Y_train, Y_pred_train_auc)
metrics_letter_P1_RF[i, 5] = roc_auc_score(Y_test, Y_pred_test_auc)

match_param = match_model.cv_results_['params'][np.argmin(match_model.
↳cv_results_['rank_test_accuracy'])]
classifier_RF.set_params(**match_param)
classifier_RF.fit(X_train, Y_train)
Y_pred_train_acc = classifier_RF.predict(X_train)
Y_pred_test_acc = classifier_RF.predict(X_test)
metrics_letter_P1_RF[i, 0] = accuracy_score(Y_train, Y_pred_train_acc)
metrics_letter_P1_RF[i, 3] = accuracy_score(Y_test, Y_pred_test_acc)

match_param = match_model.cv_results_['params'][np.argmin(match_model.
↳cv_results_['rank_test_f1_micro'])]
classifier_RF.set_params(**match_param)
classifier_RF.fit(X_train, Y_train)
Y_pred_train_f1 = classifier_RF.predict(X_train)
Y_pred_test_f1 = classifier_RF.predict(X_test)
metrics_letter_P1_RF[i, 1] = f1_score(Y_train, Y_pred_train_f1)
metrics_letter_P1_RF[i, 4] = f1_score(Y_test, Y_pred_test_f1)

```

Trial 1

Fitting 5 folds for each of 6 candidates, totalling 30 fits

[CV] max_features=1 ...

[Parallel(n_jobs=1)]: Using backend SequentialBackend with 1 concurrent workers.

[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.

[Parallel(n_jobs=-1)]: Done 25 tasks | elapsed: 1.2s

[Parallel(n_jobs=-1)]: Done 828 tasks | elapsed: 1.7s

[Parallel(n_jobs=-1)]: Done 1024 out of 1024 | elapsed: 1.9s finished

[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.

[Parallel(n_jobs=8)]: Done 25 tasks | elapsed: 0.0s

[Parallel(n_jobs=8)]: Done 146 tasks | elapsed: 0.0s

```

[Parallel(n_jobs=8)]: Done 349 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.0s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks       | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.0s finished

[CV] ... max_features=1, total=    2.7s
[CV] max_features=1 ...

[Parallel(n_jobs=1)]: Done 1 out of 1 | elapsed:    2.6s remaining:    0.0s
[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.
[Parallel(n_jobs=-1)]: Done 34 tasks      | elapsed:    0.0s
[Parallel(n_jobs=-1)]: Done 1024 out of 1024 | elapsed:    0.5s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks       | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks      | elapsed:    0.1s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.1s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks       | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.0s finished

[CV] ... max_features=1, total=    1.3s
[CV] max_features=1 ...

[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.
[Parallel(n_jobs=-1)]: Done 34 tasks      | elapsed:    0.0s
[Parallel(n_jobs=-1)]: Done 1024 out of 1024 | elapsed:    0.4s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks       | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.1s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks       | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks      | elapsed:    0.0s

```

```

[Parallel(n_jobs=8)]: Done 349 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.0s finished

[CV] ... max_features=1, total=    1.3s
[CV] max_features=1 ...

[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.
[Parallel(n_jobs=-1)]: Done  34 tasks      | elapsed:    0.0s
[Parallel(n_jobs=-1)]: Done 1024 out of 1024 | elapsed:    0.5s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done  25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.0s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done  25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.1s finished

[CV] ... max_features=1, total=    1.3s
[CV] max_features=1 ...

[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.
[Parallel(n_jobs=-1)]: Done  34 tasks      | elapsed:    0.0s
[Parallel(n_jobs=-1)]: Done 1024 out of 1024 | elapsed:    0.4s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done  25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks      | elapsed:    0.1s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.1s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done  25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.0s finished

[CV] ... max_features=1, total=    1.2s
[CV] max_features=2 ...

[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.

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[Parallel(n_jobs=-1)]: Done 34 tasks      | elapsed:    0.0s
[Parallel(n_jobs=-1)]: Done 1024 out of 1024 | elapsed:    0.5s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.0s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.0s finished

[CV] ... max_features=2, total=    1.3s
[CV] max_features=2 ...

[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.
[Parallel(n_jobs=-1)]: Done 34 tasks      | elapsed:    0.0s
[Parallel(n_jobs=-1)]: Done 1024 out of 1024 | elapsed:    0.5s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.0s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.0s finished

[CV] ... max_features=2, total=    1.3s
[CV] max_features=2 ...

[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.
[Parallel(n_jobs=-1)]: Done 34 tasks      | elapsed:    0.0s
[Parallel(n_jobs=-1)]: Done 1024 out of 1024 | elapsed:    0.5s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks     | elapsed:    0.1s

```

```

[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.1s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks     | elapsed:    0.1s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.1s finished

[CV] ... max_features=2, total=    1.3s
[CV] max_features=2 ...

[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.
[Parallel(n_jobs=-1)]: Done 34 tasks      | elapsed:    0.0s
[Parallel(n_jobs=-1)]: Done 1024 out of 1024 | elapsed:    0.5s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.0s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.1s finished

[CV] ... max_features=2, total=    1.3s
[CV] max_features=2 ...

[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.
[Parallel(n_jobs=-1)]: Done 34 tasks      | elapsed:    0.0s
[Parallel(n_jobs=-1)]: Done 1024 out of 1024 | elapsed:    0.5s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks     | elapsed:    0.1s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.1s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.0s finished

```

```

[CV] ... max_features=2, total=    1.4s
[CV] max_features=4 ...

[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.
[Parallel(n_jobs=-1)]: Done   34 tasks      | elapsed:    0.0s
[Parallel(n_jobs=-1)]: Done 1024 out of 1024 | elapsed:    0.5s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done   25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done  146 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done  349 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done  632 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done  997 tasks      | elapsed:    0.1s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.1s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done   25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done  146 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done  349 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done  632 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done  997 tasks      | elapsed:    0.1s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.1s finished

[CV] ... max_features=4, total=    1.3s
[CV] max_features=4 ...

[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.
[Parallel(n_jobs=-1)]: Done   34 tasks      | elapsed:    0.0s
[Parallel(n_jobs=-1)]: Done 1024 out of 1024 | elapsed:    0.6s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done   25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done  146 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done  349 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done  632 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done  997 tasks      | elapsed:    0.1s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.1s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done   25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done  146 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done  349 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done  632 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done  997 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.0s finished

[CV] ... max_features=4, total=    1.4s
[CV] max_features=4 ...

[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.
[Parallel(n_jobs=-1)]: Done   34 tasks      | elapsed:    0.0s
[Parallel(n_jobs=-1)]: Done 1024 out of 1024 | elapsed:    0.5s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done   25 tasks      | elapsed:    0.0s

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[Parallel(n_jobs=8)]: Done 146 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.0s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks       | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.0s finished

[CV] ... max_features=4, total=    1.3s
[CV] max_features=4 ...

[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.
[Parallel(n_jobs=-1)]: Done 34 tasks      | elapsed:    0.0s
[Parallel(n_jobs=-1)]: Done 1024 out of 1024 | elapsed:    0.5s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks       | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.0s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks       | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.0s finished

[CV] ... max_features=4, total=    1.3s
[CV] max_features=4 ...

[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.
[Parallel(n_jobs=-1)]: Done 34 tasks      | elapsed:    0.0s
[Parallel(n_jobs=-1)]: Done 1024 out of 1024 | elapsed:    0.5s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks       | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks      | elapsed:    0.1s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.1s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks       | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks      | elapsed:    0.0s

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[Parallel(n_jobs=8)]: Done 349 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.0s finished

[CV] ... max_features=4, total=    1.3s
[CV] max_features=6 ...

[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.
[Parallel(n_jobs=-1)]: Done  34 tasks      | elapsed:    0.0s
[Parallel(n_jobs=-1)]: Done 1024 out of 1024 | elapsed:    0.6s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done  25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.0s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done  25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.0s finished

[CV] ... max_features=6, total=    1.4s
[CV] max_features=6 ...

[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.
[Parallel(n_jobs=-1)]: Done  34 tasks      | elapsed:    0.0s
[Parallel(n_jobs=-1)]: Done 1024 out of 1024 | elapsed:    0.6s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done  25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.1s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done  25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.0s finished

[CV] ... max_features=6, total=    1.4s
[CV] max_features=6 ...

[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.

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[Parallel(n_jobs=-1)]: Done 34 tasks      | elapsed:    0.0s
[Parallel(n_jobs=-1)]: Done 1024 out of 1024 | elapsed:    0.6s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks     | elapsed:    0.1s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.1s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks     | elapsed:    0.1s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.1s finished

[CV] ... max_features=6, total=    1.4s
[CV] max_features=6 ...

[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.
[Parallel(n_jobs=-1)]: Done 34 tasks      | elapsed:    0.0s
[Parallel(n_jobs=-1)]: Done 1024 out of 1024 | elapsed:    0.6s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks     | elapsed:    0.1s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.1s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks     | elapsed:    0.1s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.1s finished

[CV] ... max_features=6, total=    1.4s
[CV] max_features=6 ...

[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.
[Parallel(n_jobs=-1)]: Done 34 tasks      | elapsed:    0.0s
[Parallel(n_jobs=-1)]: Done 1024 out of 1024 | elapsed:    0.6s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks     | elapsed:    0.0s

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[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.0s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.1s finished

[CV] ... max_features=6, total=    1.4s
[CV] max_features=8 ...

[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.
[Parallel(n_jobs=-1)]: Done 34 tasks      | elapsed:    0.0s
[Parallel(n_jobs=-1)]: Done 1024 out of 1024 | elapsed:    0.6s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.0s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.0s finished

[CV] ... max_features=8, total=    1.4s
[CV] max_features=8 ...

[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.
[Parallel(n_jobs=-1)]: Done 34 tasks      | elapsed:    0.0s
[Parallel(n_jobs=-1)]: Done 1024 out of 1024 | elapsed:    0.7s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.0s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.0s finished

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[CV] ... max_features=8, total=    1.5s
[CV] max_features=8 ...

[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.
[Parallel(n_jobs=-1)]: Done   34 tasks      | elapsed:    0.0s
[Parallel(n_jobs=-1)]: Done 1024 out of 1024 | elapsed:    0.6s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done   25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done  146 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done  349 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done  632 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done  997 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.0s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done   25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done  146 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done  349 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done  632 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done  997 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.0s finished

[CV] ... max_features=8, total=    1.4s
[CV] max_features=8 ...

[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.
[Parallel(n_jobs=-1)]: Done   34 tasks      | elapsed:    0.0s
[Parallel(n_jobs=-1)]: Done 1024 out of 1024 | elapsed:    0.7s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done   25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done  146 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done  349 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done  632 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done  997 tasks      | elapsed:    0.1s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.1s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done   25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done  146 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done  349 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done  632 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done  997 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.0s finished

[CV] ... max_features=8, total=    1.5s
[CV] max_features=8 ...

[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.
[Parallel(n_jobs=-1)]: Done   34 tasks      | elapsed:    0.0s
[Parallel(n_jobs=-1)]: Done 1024 out of 1024 | elapsed:    0.7s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done   25 tasks      | elapsed:    0.0s

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[Parallel(n_jobs=8)]: Done 146 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.0s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks       | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks      | elapsed:    0.1s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.1s finished

[CV] ... max_features=8, total=    1.5s
[CV] max_features=12 ...

[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.
[Parallel(n_jobs=-1)]: Done 34 tasks      | elapsed:    0.0s
[Parallel(n_jobs=-1)]: Done 1024 out of 1024 | elapsed:    0.8s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks       | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.0s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks       | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.0s finished

[CV] ... max_features=12, total=    1.6s
[CV] max_features=12 ...

[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.
[Parallel(n_jobs=-1)]: Done 34 tasks      | elapsed:    0.0s
[Parallel(n_jobs=-1)]: Done 1024 out of 1024 | elapsed:    0.9s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks       | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.0s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks       | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks      | elapsed:    0.0s

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[Parallel(n_jobs=8)]: Done 349 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks      | elapsed:    0.1s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.1s finished

[CV] ... max_features=12, total=    1.8s
[CV] max_features=12 ...

[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.
[Parallel(n_jobs=-1)]: Done  34 tasks      | elapsed:    0.0s
[Parallel(n_jobs=-1)]: Done 1024 out of 1024 | elapsed:    1.0s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done  25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks      | elapsed:    0.1s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.1s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done  25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.0s finished

[CV] ... max_features=12, total=    1.9s
[CV] max_features=12 ...

[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.
[Parallel(n_jobs=-1)]: Done  34 tasks      | elapsed:    0.0s
[Parallel(n_jobs=-1)]: Done 1024 out of 1024 | elapsed:    0.7s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done  25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.0s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done  25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks      | elapsed:    0.1s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.1s finished

[CV] ... max_features=12, total=    1.6s
[CV] max_features=12 ...

[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.

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[Parallel(n_jobs=-1)]: Done 34 tasks      | elapsed:    0.0s
[Parallel(n_jobs=-1)]: Done 1024 out of 1024 | elapsed:    0.8s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks     | elapsed:    0.1s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.1s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks     | elapsed:    0.1s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.1s finished

[CV] ... max_features=12, total=    1.7s

[Parallel(n_jobs=1)]: Done 30 out of 30 | elapsed:   43.6s finished
[Parallel(n_jobs=-1)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=-1)]: Done 25 tasks      | elapsed:    0.0s

building tree 1 of 1024building tree 2 of 1024
building tree 3 of 1024
building tree 4 of 1024

building tree 5 of 1024building tree 6 of 1024

building tree 7 of 1024building tree 8 of 1024

building tree 9 of 1024
building tree 10 of 1024building tree 11 of 1024

building tree 12 of 1024
building tree 13 of 1024
building tree 14 of 1024building tree 15 of 1024

building tree 16 of 1024
building tree 17 of 1024
building tree 18 of 1024
building tree 19 of 1024building tree 20 of 1024

building tree 21 of 1024building tree 22 of 1024
building tree 23 of 1024

building tree 24 of 1024
building tree 25 of 1024building tree 26 of 1024

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building tree 27 of 1024building tree 28 of 1024building tree 29 of 1024
building tree 30 of 1024

building tree 31 of 1024
building tree 32 of 1024
building tree 33 of 1024
building tree 34 of 1024
building tree 35 of 1024
building tree 36 of 1024building tree 37 of 1024

building tree 38 of 1024building tree 39 of 1024
building tree 40 of 1024

building tree 41 of 1024
building tree 42 of 1024
building tree 43 of 1024building tree 44 of 1024

building tree 45 of 1024building tree 46 of 1024

building tree 47 of 1024
building tree 48 of 1024
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[Parallel(n_jobs=-1)]: Done 146 tasks | elapsed: 0.1s

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[Parallel(n_jobs=-1)]: Done 349 tasks | elapsed: 0.4s

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[Parallel(n_jobs=-1)]: Done 632 tasks | elapsed: 0.7s

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[Parallel(n_jobs=-1)]: Done 997 tasks      | elapsed:    1.2s
[Parallel(n_jobs=-1)]: Done 1024 out of 1024 | elapsed:    1.2s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks     | elapsed:    0.0s

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[Parallel(n_jobs=8)]: Done 349 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks      | elapsed:    0.1s
[Parallel(n_jobs=8)]: Done 997 tasks      | elapsed:    0.2s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.2s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks       | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks      | elapsed:    0.1s
[Parallel(n_jobs=8)]: Done 997 tasks      | elapsed:    0.2s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.2s finished
[Parallel(n_jobs=-1)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=-1)]: Done 25 tasks      | elapsed:    0.0s

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[Parallel(n_jobs=-1)]: Done 146 tasks      | elapsed:    0.1s

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[Parallel(n_jobs=-1)]: Done 349 tasks      | elapsed:    0.4s
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[Parallel(n_jobs=-1)]: Done 632 tasks | elapsed: 0.8s

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[Parallel(n_jobs=-1)]: Done 997 tasks      | elapsed:    1.3s
[Parallel(n_jobs=-1)]: Done 1024 out of 1024 | elapsed:    1.4s finished

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[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks     | elapsed:    0.1s
[Parallel(n_jobs=8)]: Done 997 tasks     | elapsed:    0.1s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.1s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks     | elapsed:    0.1s
[Parallel(n_jobs=8)]: Done 997 tasks     | elapsed:    0.2s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.2s finished
[Parallel(n_jobs=-1)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=-1)]: Done 25 tasks      | elapsed:    0.0s

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[Parallel(n_jobs=-1)]: Done 146 tasks | elapsed: 0.1s

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[Parallel(n_jobs=-1)]: Done 349 tasks      | elapsed:    0.4s

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[Parallel(n_jobs=-1)]: Done 632 tasks | elapsed: 0.9s

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[Parallel(n_jobs=-1)]: Done 997 tasks      | elapsed:    1.4s
[Parallel(n_jobs=-1)]: Done 1024 out of 1024 | elapsed:    1.5s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks     | elapsed:    0.0s

```

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[Parallel(n_jobs=8)]: Done 632 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks      | elapsed:    0.1s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.1s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks       | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks      | elapsed:    0.1s
[Parallel(n_jobs=8)]: Done 997 tasks      | elapsed:    0.2s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.2s finished
[Parallel(n_jobs=1)]: Using backend SequentialBackend with 1 concurrent workers.

```

Trial 2

Fitting 5 folds for each of 6 candidates, totalling 30 fits

```
[CV] max_features=1 ...
```

```

[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.
[Parallel(n_jobs=-1)]: Done 34 tasks      | elapsed:    0.0s
[Parallel(n_jobs=-1)]: Done 1024 out of 1024 | elapsed:    0.5s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks       | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.1s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks       | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks      | elapsed:    0.1s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.1s finished

```

```
[CV] ... max_features=1, total= 1.3s
```

```
[CV] max_features=1 ...
```

```

[Parallel(n_jobs=1)]: Done 1 out of 1 | elapsed: 1.2s remaining: 0.0s
[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.
[Parallel(n_jobs=-1)]: Done 34 tasks      | elapsed:    0.0s
[Parallel(n_jobs=-1)]: Done 1024 out of 1024 | elapsed:    0.5s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks       | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks      | elapsed:    0.1s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.1s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.

```



```

[Parallel(n_jobs=8)]: Done 25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks     | elapsed:    0.1s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.1s finished

[CV] ... max_features=1, total=    1.4s
[CV] max_features=1 ...

[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.
[Parallel(n_jobs=-1)]: Done 34 tasks     | elapsed:    0.0s
[Parallel(n_jobs=-1)]: Done 1024 out of 1024 | elapsed:    0.4s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks     | elapsed:    0.1s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.1s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.0s finished

[CV] ... max_features=1, total=    1.2s
[CV] max_features=1 ...

[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.
[Parallel(n_jobs=-1)]: Done 34 tasks     | elapsed:    0.0s
[Parallel(n_jobs=-1)]: Done 1024 out of 1024 | elapsed:    0.4s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.0s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks     | elapsed:    0.1s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.1s finished

[CV] ... max_features=1, total=    1.3s

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[CV] max_features=1 ...

[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.
[Parallel(n_jobs=-1)]: Done 34 tasks      | elapsed:    0.0s
[Parallel(n_jobs=-1)]: Done 1024 out of 1024 | elapsed:    0.5s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.0s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.0s finished

[CV] ... max_features=1, total=    1.2s
[CV] max_features=2 ...

[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.
[Parallel(n_jobs=-1)]: Done 34 tasks      | elapsed:    0.0s
[Parallel(n_jobs=-1)]: Done 1024 out of 1024 | elapsed:    0.5s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.0s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks     | elapsed:    0.1s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.1s finished

[CV] ... max_features=2, total=    1.3s
[CV] max_features=2 ...

[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.
[Parallel(n_jobs=-1)]: Done 34 tasks      | elapsed:    0.0s
[Parallel(n_jobs=-1)]: Done 1024 out of 1024 | elapsed:    0.5s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks     | elapsed:    0.0s

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[Parallel(n_jobs=8)]: Done 349 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.0s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks       | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks      | elapsed:    0.1s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.1s finished

[CV] ... max_features=2, total=    1.3s
[CV] max_features=2 ...

[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.
[Parallel(n_jobs=-1)]: Done 34 tasks      | elapsed:    0.0s
[Parallel(n_jobs=-1)]: Done 1024 out of 1024 | elapsed:    0.5s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks       | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.0s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks       | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks      | elapsed:    0.1s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.1s finished

[CV] ... max_features=2, total=    1.3s
[CV] max_features=2 ...

[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.
[Parallel(n_jobs=-1)]: Done 34 tasks      | elapsed:    0.0s
[Parallel(n_jobs=-1)]: Done 1024 out of 1024 | elapsed:    0.5s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks       | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.0s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks       | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks      | elapsed:    0.0s

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[Parallel(n_jobs=8)]: Done 632 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.0s finished

[CV] ... max_features=2, total=    1.3s
[CV] max_features=2 ...

[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.
[Parallel(n_jobs=-1)]: Done  34 tasks      | elapsed:    0.0s
[Parallel(n_jobs=-1)]: Done 1024 out of 1024 | elapsed:    0.5s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done  25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.0s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done  25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.0s finished

[CV] ... max_features=2, total=    1.3s
[CV] max_features=4 ...

[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.
[Parallel(n_jobs=-1)]: Done  34 tasks      | elapsed:    0.0s
[Parallel(n_jobs=-1)]: Done 1024 out of 1024 | elapsed:    0.5s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done  25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.0s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done  25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.0s finished

[CV] ... max_features=4, total=    1.3s
[CV] max_features=4 ...

[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.
[Parallel(n_jobs=-1)]: Done  34 tasks      | elapsed:    0.0s

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[Parallel(n_jobs=-1)]: Done 1024 out of 1024 | elapsed:    0.6s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.0s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.0s finished

[CV] ... max_features=4, total=    1.4s
[CV] max_features=4 ...

[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.
[Parallel(n_jobs=-1)]: Done 34 tasks      | elapsed:    0.0s
[Parallel(n_jobs=-1)]: Done 1024 out of 1024 | elapsed:    0.5s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.0s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks     | elapsed:    0.1s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.1s finished

[CV] ... max_features=4, total=    1.4s
[CV] max_features=4 ...

[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.
[Parallel(n_jobs=-1)]: Done 34 tasks      | elapsed:    0.0s
[Parallel(n_jobs=-1)]: Done 1024 out of 1024 | elapsed:    0.5s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.0s finished

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[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.0s finished

[CV] ... max_features=4, total=    1.3s
[CV] max_features=4 ...

[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.
[Parallel(n_jobs=-1)]: Done 34 tasks     | elapsed:    0.0s
[Parallel(n_jobs=-1)]: Done 1024 out of 1024 | elapsed:    0.6s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.0s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.0s finished

[CV] ... max_features=4, total=    1.4s
[CV] max_features=6 ...

[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.
[Parallel(n_jobs=-1)]: Done 34 tasks     | elapsed:    0.0s
[Parallel(n_jobs=-1)]: Done 1024 out of 1024 | elapsed:    0.6s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.0s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.0s finished

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[CV] ... max_features=6, total=    1.5s
[CV] max_features=6 ...

[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.
[Parallel(n_jobs=-1)]: Done   34 tasks      | elapsed:    0.0s
[Parallel(n_jobs=-1)]: Done 1024 out of 1024 | elapsed:    0.6s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done   25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done  146 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done  349 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done  632 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done  997 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.1s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done   25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done  146 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done  349 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done  632 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done  997 tasks      | elapsed:    0.1s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.1s finished

[CV] ... max_features=6, total=    1.5s
[CV] max_features=6 ...

[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.
[Parallel(n_jobs=-1)]: Done   34 tasks      | elapsed:    0.0s
[Parallel(n_jobs=-1)]: Done 1024 out of 1024 | elapsed:    0.6s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done   25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done  146 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done  349 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done  632 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done  997 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.0s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done   25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done  146 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done  349 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done  632 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done  997 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.0s finished

[CV] ... max_features=6, total=    1.4s
[CV] max_features=6 ...

[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.
[Parallel(n_jobs=-1)]: Done   34 tasks      | elapsed:    0.0s
[Parallel(n_jobs=-1)]: Done 1024 out of 1024 | elapsed:    0.6s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done   25 tasks      | elapsed:    0.0s

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[Parallel(n_jobs=8)]: Done 146 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.0s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks       | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.0s finished

[CV] ... max_features=6, total=    1.4s
[CV] max_features=6 ...

[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.
[Parallel(n_jobs=-1)]: Done 34 tasks      | elapsed:    0.0s
[Parallel(n_jobs=-1)]: Done 1024 out of 1024 | elapsed:    0.6s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks       | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks      | elapsed:    0.1s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.1s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks       | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks      | elapsed:    0.1s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.1s finished

[CV] ... max_features=6, total=    1.4s
[CV] max_features=8 ...

[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.
[Parallel(n_jobs=-1)]: Done 34 tasks      | elapsed:    0.0s
[Parallel(n_jobs=-1)]: Done 1024 out of 1024 | elapsed:    0.7s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks       | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks      | elapsed:    0.1s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.1s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks       | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks      | elapsed:    0.0s

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[Parallel(n_jobs=8)]: Done 349 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks      | elapsed:    0.1s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.1s finished

[CV] ... max_features=8, total=    1.5s
[CV] max_features=8 ...

[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.
[Parallel(n_jobs=-1)]: Done  34 tasks      | elapsed:    0.0s
[Parallel(n_jobs=-1)]: Done 1024 out of 1024 | elapsed:    0.7s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done  25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.0s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done  25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.0s finished

[CV] ... max_features=8, total=    1.5s
[CV] max_features=8 ...

[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.
[Parallel(n_jobs=-1)]: Done  34 tasks      | elapsed:    0.0s
[Parallel(n_jobs=-1)]: Done 1024 out of 1024 | elapsed:    0.7s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done  25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.0s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done  25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.0s finished

[CV] ... max_features=8, total=    1.5s
[CV] max_features=8 ...

[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.

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[Parallel(n_jobs=-1)]: Done 34 tasks      | elapsed:    0.0s
[Parallel(n_jobs=-1)]: Done 1024 out of 1024 | elapsed:    0.6s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.1s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.0s finished

[CV] ... max_features=8, total=    1.5s
[CV] max_features=8 ...

[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.
[Parallel(n_jobs=-1)]: Done 34 tasks      | elapsed:    0.0s
[Parallel(n_jobs=-1)]: Done 1024 out of 1024 | elapsed:    0.6s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.0s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.0s finished

[CV] ... max_features=8, total=    1.5s
[CV] max_features=12 ...

[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.
[Parallel(n_jobs=-1)]: Done 34 tasks      | elapsed:    0.0s
[Parallel(n_jobs=-1)]: Done 1024 out of 1024 | elapsed:    0.9s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks     | elapsed:    0.1s

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[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.1s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.0s finished

[CV] ... max_features=12, total=    1.7s
[CV] max_features=12 ...

[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.
[Parallel(n_jobs=-1)]: Done 34 tasks      | elapsed:    0.0s
[Parallel(n_jobs=-1)]: Done 1024 out of 1024 | elapsed:    1.0s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks     | elapsed:    0.1s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.1s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks     | elapsed:    0.1s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.1s finished

[CV] ... max_features=12, total=    1.8s
[CV] max_features=12 ...

[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.
[Parallel(n_jobs=-1)]: Done 34 tasks      | elapsed:    0.0s
[Parallel(n_jobs=-1)]: Done 1024 out of 1024 | elapsed:    0.9s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.0s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.0s finished

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[CV] ... max_features=12, total= 1.7s
[CV] max_features=12 ...

[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.
[Parallel(n_jobs=-1)]: Done 34 tasks | elapsed: 0.0s
[Parallel(n_jobs=-1)]: Done 1024 out of 1024 | elapsed: 0.8s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks | elapsed: 0.0s
[Parallel(n_jobs=8)]: Done 146 tasks | elapsed: 0.0s
[Parallel(n_jobs=8)]: Done 349 tasks | elapsed: 0.0s
[Parallel(n_jobs=8)]: Done 632 tasks | elapsed: 0.0s
[Parallel(n_jobs=8)]: Done 997 tasks | elapsed: 0.0s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed: 0.0s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks | elapsed: 0.0s
[Parallel(n_jobs=8)]: Done 146 tasks | elapsed: 0.0s
[Parallel(n_jobs=8)]: Done 349 tasks | elapsed: 0.0s
[Parallel(n_jobs=8)]: Done 632 tasks | elapsed: 0.0s
[Parallel(n_jobs=8)]: Done 997 tasks | elapsed: 0.0s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed: 0.0s finished

[CV] ... max_features=12, total= 1.6s
[CV] max_features=12 ...

[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.
[Parallel(n_jobs=-1)]: Done 34 tasks | elapsed: 0.0s
[Parallel(n_jobs=-1)]: Done 1024 out of 1024 | elapsed: 0.9s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks | elapsed: 0.0s
[Parallel(n_jobs=8)]: Done 146 tasks | elapsed: 0.0s
[Parallel(n_jobs=8)]: Done 349 tasks | elapsed: 0.0s
[Parallel(n_jobs=8)]: Done 632 tasks | elapsed: 0.0s
[Parallel(n_jobs=8)]: Done 997 tasks | elapsed: 0.1s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed: 0.1s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks | elapsed: 0.0s
[Parallel(n_jobs=8)]: Done 146 tasks | elapsed: 0.0s
[Parallel(n_jobs=8)]: Done 349 tasks | elapsed: 0.0s
[Parallel(n_jobs=8)]: Done 632 tasks | elapsed: 0.0s
[Parallel(n_jobs=8)]: Done 997 tasks | elapsed: 0.0s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed: 0.1s finished

[CV] ... max_features=12, total= 1.7s

[Parallel(n_jobs=1)]: Done 30 out of 30 | elapsed: 42.9s finished
[Parallel(n_jobs=-1)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=-1)]: Done 25 tasks | elapsed: 0.0s

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[Parallel(n_jobs=-1)]: Done 146 tasks | elapsed: 0.2s

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[Parallel(n_jobs=-1)]: Done 349 tasks | elapsed: 0.4s

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[Parallel(n_jobs=-1)]: Done 632 tasks      | elapsed:    0.8s

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[Parallel(n_jobs=-1)]: Done 997 tasks      | elapsed:    1.3s
[Parallel(n_jobs=-1)]: Done 1024 out of 1024 | elapsed:    1.3s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks     | elapsed:    0.1s
[Parallel(n_jobs=8)]: Done 997 tasks     | elapsed:    0.1s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.1s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks     | elapsed:    0.1s
[Parallel(n_jobs=8)]: Done 997 tasks     | elapsed:    0.2s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.2s finished
[Parallel(n_jobs=-1)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=-1)]: Done 25 tasks      | elapsed:    0.0s

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[Parallel(n_jobs=-1)]: Done 146 tasks | elapsed: 0.1s

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[Parallel(n_jobs=-1)]: Done 349 tasks | elapsed: 0.4s

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[Parallel(n_jobs=-1)]: Done 632 tasks | elapsed: 0.8s

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[Parallel(n_jobs=-1)]: Done 997 tasks      | elapsed:    1.3s
[Parallel(n_jobs=-1)]: Done 1024 out of 1024 | elapsed:    1.3s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks     | elapsed:    0.1s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.1s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks     | elapsed:    0.1s
[Parallel(n_jobs=8)]: Done 997 tasks     | elapsed:    0.2s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.2s finished
[Parallel(n_jobs=-1)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=-1)]: Done 25 tasks      | elapsed:    0.0s

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[Parallel(n_jobs=-1)]: Done 146 tasks | elapsed: 0.1s

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[Parallel(n_jobs=-1)]: Done 349 tasks      | elapsed:    0.3s

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building tree 672 of 1024building tree 673 of 1024

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building tree 694 of 1024
building tree 695 of 1024
building tree 696 of 1024building tree 697 of 1024

building tree 698 of 1024
building tree 699 of 1024building tree 700 of 1024

building tree 701 of 1024
building tree 702 of 1024
building tree 703 of 1024
building tree 704 of 1024
building tree 705 of 1024
building tree 706 of 1024
building tree 707 of 1024
building tree 708 of 1024
building tree 709 of 1024
building tree 710 of 1024
building tree 711 of 1024
building tree 712 of 1024
building tree 713 of 1024
building tree 714 of 1024
building tree 715 of 1024
building tree 716 of 1024
building tree 717 of 1024
building tree 718 of 1024
building tree 719 of 1024

[Parallel(n_jobs=-1)]: Done 632 tasks | elapsed: 0.7s

building tree 720 of 1024
building tree 721 of 1024
building tree 722 of 1024
building tree 723 of 1024
building tree 724 of 1024building tree 725 of 1024

building tree 726 of 1024

building tree 727 of 1024building tree 728 of 1024

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building tree 750 of 1024
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building tree 999 of 1024
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building tree 1002 of 1024
building tree 1003 of 1024
building tree 1004 of 1024
building tree 1005 of 1024building tree 1006 of 1024

building tree 1007 of 1024
building tree 1008 of 1024
building tree 1009 of 1024
building tree 1010 of 1024
building tree 1011 of 1024building tree 1012 of 1024

building tree 1013 of 1024
building tree 1014 of 1024

```

building tree 1015 of 1024
building tree 1016 of 1024
building tree 1017 of 1024building tree 1018 of 1024

building tree 1019 of 1024
building tree 1020 of 1024
building tree 1021 of 1024building tree 1022 of 1024

```

```

[Parallel(n_jobs=-1)]: Done 997 tasks      | elapsed:    1.2s
[Parallel(n_jobs=-1)]: Done 1024 out of 1024 | elapsed:    1.2s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks     | elapsed:    0.0s

```

```

building tree 1023 of 1024
building tree 1024 of 1024

```

```

[Parallel(n_jobs=8)]: Done 349 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks     | elapsed:    0.1s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.1s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks     | elapsed:    0.1s
[Parallel(n_jobs=8)]: Done 997 tasks     | elapsed:    0.2s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.2s finished
[Parallel(n_jobs=1)]: Using backend SequentialBackend with 1 concurrent workers.

```

Trial 3

```

Fitting 5 folds for each of 6 candidates, totalling 30 fits
[CV] max_features=1 ...

```

```

[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.
[Parallel(n_jobs=-1)]: Done 34 tasks     | elapsed:    0.0s
[Parallel(n_jobs=-1)]: Done 1024 out of 1024 | elapsed:    0.4s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.0s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks     | elapsed:    0.0s

```

```

[Parallel(n_jobs=8)]: Done 632 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.0s finished

[CV] ... max_features=1, total=    1.2s
[CV] max_features=1 ...

[Parallel(n_jobs=1)]: Done    1 out of    1 | elapsed:    1.1s remaining:    0.0s
[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.
[Parallel(n_jobs=-1)]: Done   34 tasks      | elapsed:    0.0s
[Parallel(n_jobs=-1)]: Done 1024 out of 1024 | elapsed:    0.4s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done   25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done  146 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done  349 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done  632 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done  997 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.0s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done   25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done  146 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done  349 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done  632 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done  997 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.0s finished

[CV] ... max_features=1, total=    1.2s
[CV] max_features=1 ...

[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.
[Parallel(n_jobs=-1)]: Done   34 tasks      | elapsed:    0.0s
[Parallel(n_jobs=-1)]: Done 1024 out of 1024 | elapsed:    0.4s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done   25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done  146 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done  349 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done  632 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done  997 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.0s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done   25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done  146 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done  349 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done  632 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done  997 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.0s finished

[CV] ... max_features=1, total=    1.2s
[CV] max_features=1 ...

[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.

```

```

[Parallel(n_jobs=-1)]: Done 34 tasks      | elapsed:    0.0s
[Parallel(n_jobs=-1)]: Done 1024 out of 1024 | elapsed:    0.4s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.0s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.0s finished

[CV] ... max_features=1, total=    1.2s
[CV] max_features=1 ...

[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.
[Parallel(n_jobs=-1)]: Done 34 tasks      | elapsed:    0.0s
[Parallel(n_jobs=-1)]: Done 1024 out of 1024 | elapsed:    0.4s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.0s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.0s finished

[CV] ... max_features=1, total=    1.2s
[CV] max_features=2 ...

[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.
[Parallel(n_jobs=-1)]: Done 34 tasks      | elapsed:    0.0s
[Parallel(n_jobs=-1)]: Done 1024 out of 1024 | elapsed:    0.5s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks     | elapsed:    0.0s

```



```

[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.0s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.0s finished

[CV] ... max_features=2, total=    1.3s
[CV] max_features=2 ...

[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.
[Parallel(n_jobs=-1)]: Done 34 tasks      | elapsed:    0.0s
[Parallel(n_jobs=-1)]: Done 1024 out of 1024 | elapsed:    0.4s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.0s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.0s finished

[CV] ... max_features=2, total=    1.3s
[CV] max_features=2 ...

[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.
[Parallel(n_jobs=-1)]: Done 34 tasks      | elapsed:    0.0s
[Parallel(n_jobs=-1)]: Done 1024 out of 1024 | elapsed:    0.4s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.0s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.0s finished

```

```

[CV] ... max_features=2, total=    1.2s
[CV] max_features=2 ...

[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.
[Parallel(n_jobs=-1)]: Done   34 tasks      | elapsed:    0.0s
[Parallel(n_jobs=-1)]: Done 1024 out of 1024 | elapsed:    0.4s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done   25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done  146 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done  349 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done  632 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done  997 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.0s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done   25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done  146 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done  349 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done  632 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done  997 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.0s finished

[CV] ... max_features=2, total=    1.2s
[CV] max_features=2 ...

[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.
[Parallel(n_jobs=-1)]: Done   34 tasks      | elapsed:    0.0s
[Parallel(n_jobs=-1)]: Done 1024 out of 1024 | elapsed:    0.4s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done   25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done  146 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done  349 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done  632 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done  997 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.0s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done   25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done  146 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done  349 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done  632 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done  997 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.0s finished

[CV] ... max_features=2, total=    1.2s
[CV] max_features=4 ...

[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.
[Parallel(n_jobs=-1)]: Done   34 tasks      | elapsed:    0.0s
[Parallel(n_jobs=-1)]: Done 1024 out of 1024 | elapsed:    0.6s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done   25 tasks      | elapsed:    0.0s

```

```

[Parallel(n_jobs=8)]: Done 146 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.0s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks       | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.0s finished

[CV] ... max_features=4, total=    1.4s
[CV] max_features=4 ...

[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.
[Parallel(n_jobs=-1)]: Done 34 tasks      | elapsed:    0.0s
[Parallel(n_jobs=-1)]: Done 1024 out of 1024 | elapsed:    0.5s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks       | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.0s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks       | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.0s finished

[CV] ... max_features=4, total=    1.4s
[CV] max_features=4 ...

[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.
[Parallel(n_jobs=-1)]: Done 34 tasks      | elapsed:    0.0s
[Parallel(n_jobs=-1)]: Done 1024 out of 1024 | elapsed:    0.5s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks       | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.0s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks       | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks      | elapsed:    0.0s

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[Parallel(n_jobs=8)]: Done 349 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.0s finished

[CV] ... max_features=4, total=    1.4s
[CV] max_features=4 ...

[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.
[Parallel(n_jobs=-1)]: Done  34 tasks      | elapsed:    0.0s
[Parallel(n_jobs=-1)]: Done 1024 out of 1024 | elapsed:    0.5s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done  25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.0s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done  25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.0s finished

[CV] ... max_features=4, total=    1.3s
[CV] max_features=4 ...

[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.
[Parallel(n_jobs=-1)]: Done  34 tasks      | elapsed:    0.0s
[Parallel(n_jobs=-1)]: Done 1024 out of 1024 | elapsed:    0.5s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done  25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.0s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done  25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.0s finished

[CV] ... max_features=4, total=    1.3s
[CV] max_features=6 ...

[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.

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[Parallel(n_jobs=-1)]: Done 34 tasks      | elapsed:    0.0s
[Parallel(n_jobs=-1)]: Done 1024 out of 1024 | elapsed:    0.6s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.0s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.0s finished

[CV] ... max_features=6, total=    1.4s
[CV] max_features=6 ...

[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.
[Parallel(n_jobs=-1)]: Done 34 tasks      | elapsed:    0.0s
[Parallel(n_jobs=-1)]: Done 1024 out of 1024 | elapsed:    0.6s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.0s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.0s finished

[CV] ... max_features=6, total=    1.4s
[CV] max_features=6 ...

[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.
[Parallel(n_jobs=-1)]: Done 34 tasks      | elapsed:    0.0s
[Parallel(n_jobs=-1)]: Done 1024 out of 1024 | elapsed:    0.6s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks     | elapsed:    0.0s

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[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.0s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.0s finished

[CV] ... max_features=6, total=    1.4s
[CV] max_features=6 ...

[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.
[Parallel(n_jobs=-1)]: Done 34 tasks      | elapsed:    0.0s
[Parallel(n_jobs=-1)]: Done 1024 out of 1024 | elapsed:    0.6s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.0s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.0s finished

[CV] ... max_features=6, total=    1.4s
[CV] max_features=6 ...

[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.
[Parallel(n_jobs=-1)]: Done 34 tasks      | elapsed:    0.0s
[Parallel(n_jobs=-1)]: Done 1024 out of 1024 | elapsed:    0.6s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.0s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.0s finished

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[CV] ... max_features=6, total=    1.4s
[CV] max_features=8 ...

[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.
[Parallel(n_jobs=-1)]: Done   34 tasks      | elapsed:    0.0s
[Parallel(n_jobs=-1)]: Done 1024 out of 1024 | elapsed:    0.7s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done   25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done  146 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done  349 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done  632 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done  997 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.0s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done   25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done  146 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done  349 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done  632 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done  997 tasks      | elapsed:    0.1s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.1s finished

[CV] ... max_features=8, total=    1.5s
[CV] max_features=8 ...

[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.
[Parallel(n_jobs=-1)]: Done   34 tasks      | elapsed:    0.0s
[Parallel(n_jobs=-1)]: Done 1024 out of 1024 | elapsed:    0.7s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done   25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done  146 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done  349 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done  632 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done  997 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.0s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done   25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done  146 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done  349 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done  632 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done  997 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.0s finished

[CV] ... max_features=8, total=    1.5s
[CV] max_features=8 ...

[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.
[Parallel(n_jobs=-1)]: Done   34 tasks      | elapsed:    0.0s
[Parallel(n_jobs=-1)]: Done 1024 out of 1024 | elapsed:    0.7s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done   25 tasks      | elapsed:    0.0s

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[Parallel(n_jobs=8)]: Done 146 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.0s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks       | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.0s finished

[CV] ... max_features=8, total=    1.5s
[CV] max_features=8 ...

[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.
[Parallel(n_jobs=-1)]: Done 34 tasks      | elapsed:    0.0s
[Parallel(n_jobs=-1)]: Done 1024 out of 1024 | elapsed:    0.7s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks       | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.0s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks       | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.0s finished

[CV] ... max_features=8, total=    1.6s
[CV] max_features=8 ...

[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.
[Parallel(n_jobs=-1)]: Done 34 tasks      | elapsed:    0.0s
[Parallel(n_jobs=-1)]: Done 1024 out of 1024 | elapsed:    0.7s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks       | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.0s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks       | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks      | elapsed:    0.0s

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[Parallel(n_jobs=8)]: Done 349 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.0s finished

[CV] ... max_features=8, total=    1.5s
[CV] max_features=12 ...

[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.
[Parallel(n_jobs=-1)]: Done  34 tasks      | elapsed:    0.0s
[Parallel(n_jobs=-1)]: Done 1024 out of 1024 | elapsed:    0.9s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done  25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks      | elapsed:    0.1s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.1s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done  25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks      | elapsed:    0.1s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.1s finished

[CV] ... max_features=12, total=    1.8s
[CV] max_features=12 ...

[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.
[Parallel(n_jobs=-1)]: Done  34 tasks      | elapsed:    0.0s
[Parallel(n_jobs=-1)]: Done 1024 out of 1024 | elapsed:    0.9s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done  25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.0s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done  25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.0s finished

[CV] ... max_features=12, total=    1.8s
[CV] max_features=12 ...

[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.

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[Parallel(n_jobs=-1)]: Done 34 tasks      | elapsed:    0.0s
[Parallel(n_jobs=-1)]: Done 1024 out of 1024 | elapsed:    1.0s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.0s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.0s finished

[CV] ... max_features=12, total=    1.8s
[CV] max_features=12 ...

[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.
[Parallel(n_jobs=-1)]: Done 34 tasks      | elapsed:    0.0s
[Parallel(n_jobs=-1)]: Done 1024 out of 1024 | elapsed:    0.9s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.0s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.0s finished

[CV] ... max_features=12, total=    1.7s
[CV] max_features=12 ...

[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.
[Parallel(n_jobs=-1)]: Done 34 tasks      | elapsed:    0.0s
[Parallel(n_jobs=-1)]: Done 1024 out of 1024 | elapsed:    0.8s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks     | elapsed:    0.0s

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[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.0s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.0s finished

[CV] ... max_features=12, total=    1.6s

[Parallel(n_jobs=1)]: Done 30 out of 30 | elapsed:   42.0s finished
[Parallel(n_jobs=-1)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=-1)]: Done 25 tasks      | elapsed:    0.0s

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[Parallel(n_jobs=-1)]: Done 146 tasks      | elapsed:    0.1s

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[Parallel(n_jobs=-1)]: Done 349 tasks | elapsed: 0.4s
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[Parallel(n_jobs=-1)]: Done 632 tasks | elapsed: 0.7s

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[Parallel(n_jobs=-1)]: Done 997 tasks      | elapsed:    1.3s
[Parallel(n_jobs=-1)]: Done 1024 out of 1024 | elapsed:    1.3s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks     | elapsed:    0.1s
[Parallel(n_jobs=8)]: Done 997 tasks     | elapsed:    0.2s

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[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.2s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks     | elapsed:    0.1s
[Parallel(n_jobs=8)]: Done 997 tasks     | elapsed:    0.3s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.3s finished
[Parallel(n_jobs=-1)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=-1)]: Done 25 tasks      | elapsed:    0.0s

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[Parallel(n_jobs=-1)]: Done 146 tasks      | elapsed:    0.1s

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[Parallel(n_jobs=-1)]: Done 349 tasks | elapsed: 0.4s

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[Parallel(n_jobs=-1)]: Done 632 tasks | elapsed: 0.8s

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[Parallel(n_jobs=-1)]: Done 997 tasks      | elapsed:    1.3s
[Parallel(n_jobs=-1)]: Done 1024 out of 1024 | elapsed:    1.3s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks     | elapsed:    0.1s
[Parallel(n_jobs=8)]: Done 997 tasks     | elapsed:    0.1s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.2s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.

```

```
[Parallel(n_jobs=8)]: Done 25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks     | elapsed:    0.1s
[Parallel(n_jobs=8)]: Done 997 tasks     | elapsed:    0.3s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.3s finished
[Parallel(n_jobs=-1)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=-1)]: Done 25 tasks      | elapsed:    0.0s
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[Parallel(n_jobs=-1)]: Done 146 tasks      | elapsed:    0.2s

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[Parallel(n_jobs=-1)]: Done 349 tasks | elapsed: 0.4s
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[Parallel(n_jobs=-1)]: Done 632 tasks | elapsed: 0.8s

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[Parallel(n_jobs=-1)]: Done 997 tasks      | elapsed:    1.3s
[Parallel(n_jobs=-1)]: Done 1024 out of 1024 | elapsed:    1.3s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks     | elapsed:    0.1s
[Parallel(n_jobs=8)]: Done 997 tasks     | elapsed:    0.1s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.1s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks     | elapsed:    0.0s

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[Parallel(n_jobs=8)]: Done 632 tasks      | elapsed:    0.1s
[Parallel(n_jobs=8)]: Done 997 tasks      | elapsed:    0.2s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.2s finished
[Parallel(n_jobs=1)]: Using backend SequentialBackend with 1 concurrent workers.
```

Trial 4

Fitting 5 folds for each of 6 candidates, totalling 30 fits

```
[CV] max_features=1 ...
```

```
[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.
[Parallel(n_jobs=-1)]: Done  34 tasks      | elapsed:    0.0s
[Parallel(n_jobs=-1)]: Done 1024 out of 1024 | elapsed:    0.4s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done  25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks      | elapsed:    0.1s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.1s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done  25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks      | elapsed:    0.1s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.1s finished
[Parallel(n_jobs=1)]: Done  1 out of  1 | elapsed:    1.1s remaining:    0.0s
```

```
[CV] ... max_features=1, total=    1.2s
```

```
[CV] max_features=1 ...
```

```
[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.
[Parallel(n_jobs=-1)]: Done  34 tasks      | elapsed:    0.0s
[Parallel(n_jobs=-1)]: Done 1024 out of 1024 | elapsed:    0.6s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done  25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks      | elapsed:    0.1s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.1s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done  25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks      | elapsed:    0.1s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.1s finished
```

```

[CV] ... max_features=1, total=    1.4s
[CV] max_features=1 ...

[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.
[Parallel(n_jobs=-1)]: Done  34 tasks      | elapsed:    0.0s
[Parallel(n_jobs=-1)]: Done 1024 out of 1024 | elapsed:    0.4s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done  25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.0s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done  25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.1s finished

[CV] ... max_features=1, total=    1.3s
[CV] max_features=1 ...

[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.
[Parallel(n_jobs=-1)]: Done  34 tasks      | elapsed:    0.0s
[Parallel(n_jobs=-1)]: Done 1024 out of 1024 | elapsed:    0.4s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done  25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks      | elapsed:    0.1s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.1s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done  25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.0s finished

[CV] ... max_features=1, total=    1.3s
[CV] max_features=1 ...

[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.
[Parallel(n_jobs=-1)]: Done  34 tasks      | elapsed:    0.0s
[Parallel(n_jobs=-1)]: Done 1024 out of 1024 | elapsed:    0.4s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done  25 tasks      | elapsed:    0.0s

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[Parallel(n_jobs=8)]: Done 146 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.0s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks       | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks      | elapsed:    0.1s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.1s finished

[CV] ... max_features=1, total=    1.3s
[CV] max_features=2 ...

[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.
[Parallel(n_jobs=-1)]: Done 34 tasks      | elapsed:    0.0s
[Parallel(n_jobs=-1)]: Done 1024 out of 1024 | elapsed:    0.6s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks       | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.1s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks       | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.1s finished

[CV] ... max_features=2, total=    1.5s
[CV] max_features=2 ...

[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.
[Parallel(n_jobs=-1)]: Done 34 tasks      | elapsed:    0.0s
[Parallel(n_jobs=-1)]: Done 1024 out of 1024 | elapsed:    0.6s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks       | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks      | elapsed:    0.1s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.1s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks       | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks      | elapsed:    0.0s

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[Parallel(n_jobs=8)]: Done 349 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks      | elapsed:    0.1s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.1s finished

[CV] ... max_features=2, total=    1.4s
[CV] max_features=2 ...

[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.
[Parallel(n_jobs=-1)]: Done  34 tasks      | elapsed:    0.0s
[Parallel(n_jobs=-1)]: Done 1024 out of 1024 | elapsed:    0.5s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done  25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.0s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done  25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks      | elapsed:    0.1s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.1s finished

[CV] ... max_features=2, total=    1.3s
[CV] max_features=2 ...

[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.
[Parallel(n_jobs=-1)]: Done  34 tasks      | elapsed:    0.0s
[Parallel(n_jobs=-1)]: Done 1024 out of 1024 | elapsed:    0.5s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done  25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.0s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done  25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.0s finished

[CV] ... max_features=2, total=    1.3s
[CV] max_features=2 ...

[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.

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[Parallel(n_jobs=-1)]: Done 34 tasks      | elapsed:    0.0s
[Parallel(n_jobs=-1)]: Done 1024 out of 1024 | elapsed:    0.5s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks     | elapsed:    0.1s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.1s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.0s finished

[CV] ... max_features=2, total=    1.3s
[CV] max_features=4 ...

[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.
[Parallel(n_jobs=-1)]: Done 34 tasks      | elapsed:    0.0s
[Parallel(n_jobs=-1)]: Done 1024 out of 1024 | elapsed:    0.5s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.0s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.1s finished

[CV] ... max_features=4, total=    1.4s
[CV] max_features=4 ...

[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.
[Parallel(n_jobs=-1)]: Done 34 tasks      | elapsed:    0.0s
[Parallel(n_jobs=-1)]: Done 1024 out of 1024 | elapsed:    0.6s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks     | elapsed:    0.1s

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[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.1s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.1s finished

[CV] ... max_features=4, total=    1.4s
[CV] max_features=4 ...

[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.
[Parallel(n_jobs=-1)]: Done 34 tasks      | elapsed:    0.0s
[Parallel(n_jobs=-1)]: Done 1024 out of 1024 | elapsed:    0.5s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.0s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks     | elapsed:    0.1s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.1s finished

[CV] ... max_features=4, total=    1.4s
[CV] max_features=4 ...

[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.
[Parallel(n_jobs=-1)]: Done 34 tasks      | elapsed:    0.0s
[Parallel(n_jobs=-1)]: Done 1024 out of 1024 | elapsed:    0.5s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.0s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.0s finished

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[CV] ... max_features=4, total=    1.4s
[CV] max_features=4 ...

[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.
[Parallel(n_jobs=-1)]: Done   34 tasks      | elapsed:    0.0s
[Parallel(n_jobs=-1)]: Done 1024 out of 1024 | elapsed:    0.5s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done   25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done  146 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done  349 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done  632 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done  997 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.0s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done   25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done  146 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done  349 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done  632 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done  997 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.0s finished

[CV] ... max_features=4, total=    1.3s
[CV] max_features=6 ...

[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.
[Parallel(n_jobs=-1)]: Done   34 tasks      | elapsed:    0.0s
[Parallel(n_jobs=-1)]: Done 1024 out of 1024 | elapsed:    0.6s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done   25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done  146 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done  349 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done  632 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done  997 tasks      | elapsed:    0.1s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.1s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done   25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done  146 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done  349 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done  632 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done  997 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.0s finished

[CV] ... max_features=6, total=    1.4s
[CV] max_features=6 ...

[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.
[Parallel(n_jobs=-1)]: Done   34 tasks      | elapsed:    0.0s
[Parallel(n_jobs=-1)]: Done 1024 out of 1024 | elapsed:    0.6s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done   25 tasks      | elapsed:    0.0s

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[Parallel(n_jobs=8)]: Done 146 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.0s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks       | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.0s finished

[CV] ... max_features=6, total=    1.4s
[CV] max_features=6 ...

[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.
[Parallel(n_jobs=-1)]: Done 34 tasks      | elapsed:    0.0s
[Parallel(n_jobs=-1)]: Done 1024 out of 1024 | elapsed:    0.6s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks       | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.0s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks       | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.0s finished

[CV] ... max_features=6, total=    1.4s
[CV] max_features=6 ...

[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.
[Parallel(n_jobs=-1)]: Done 34 tasks      | elapsed:    0.0s
[Parallel(n_jobs=-1)]: Done 1024 out of 1024 | elapsed:    0.6s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks       | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.0s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks       | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks      | elapsed:    0.0s

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[Parallel(n_jobs=8)]: Done 349 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.0s finished

[CV] ... max_features=6, total=    1.4s
[CV] max_features=6 ...

[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.
[Parallel(n_jobs=-1)]: Done  34 tasks      | elapsed:    0.0s
[Parallel(n_jobs=-1)]: Done 1024 out of 1024 | elapsed:    0.6s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done  25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.0s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done  25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks      | elapsed:    0.1s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.1s finished

[CV] ... max_features=6, total=    1.4s
[CV] max_features=8 ...

[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.
[Parallel(n_jobs=-1)]: Done  34 tasks      | elapsed:    0.0s
[Parallel(n_jobs=-1)]: Done 1024 out of 1024 | elapsed:    0.7s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done  25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.1s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done  25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks      | elapsed:    0.1s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.1s finished

[CV] ... max_features=8, total=    1.6s
[CV] max_features=8 ...

[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.

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[Parallel(n_jobs=-1)]: Done 34 tasks      | elapsed:    0.0s
[Parallel(n_jobs=-1)]: Done 1024 out of 1024 | elapsed:    0.7s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks     | elapsed:    0.1s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.1s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks     | elapsed:    0.1s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.1s finished

[CV] ... max_features=8, total=    1.6s
[CV] max_features=8 ...

[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.
[Parallel(n_jobs=-1)]: Done 34 tasks      | elapsed:    0.0s
[Parallel(n_jobs=-1)]: Done 1024 out of 1024 | elapsed:    0.7s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.0s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks     | elapsed:    0.1s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.1s finished

[CV] ... max_features=8, total=    1.5s
[CV] max_features=8 ...

[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.
[Parallel(n_jobs=-1)]: Done 34 tasks      | elapsed:    0.0s
[Parallel(n_jobs=-1)]: Done 1024 out of 1024 | elapsed:    0.7s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks     | elapsed:    0.0s

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[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.0s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks     | elapsed:    0.1s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.1s finished

[CV] ... max_features=8, total=    1.5s
[CV] max_features=8 ...

[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.
[Parallel(n_jobs=-1)]: Done 34 tasks      | elapsed:    0.0s
[Parallel(n_jobs=-1)]: Done 1024 out of 1024 | elapsed:    0.7s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks     | elapsed:    0.1s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.1s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks     | elapsed:    0.1s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.1s finished

[CV] ... max_features=8, total=    1.5s
[CV] max_features=12 ...

[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.
[Parallel(n_jobs=-1)]: Done 34 tasks      | elapsed:    0.0s
[Parallel(n_jobs=-1)]: Done 1024 out of 1024 | elapsed:    1.0s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks     | elapsed:    0.1s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.1s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks     | elapsed:    0.1s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.1s finished

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[CV] ... max_features=12, total= 1.8s
[CV] max_features=12 ...

[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.
[Parallel(n_jobs=-1)]: Done 34 tasks | elapsed: 0.0s
[Parallel(n_jobs=-1)]: Done 1024 out of 1024 | elapsed: 0.9s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks | elapsed: 0.0s
[Parallel(n_jobs=8)]: Done 146 tasks | elapsed: 0.0s
[Parallel(n_jobs=8)]: Done 349 tasks | elapsed: 0.0s
[Parallel(n_jobs=8)]: Done 632 tasks | elapsed: 0.0s
[Parallel(n_jobs=8)]: Done 997 tasks | elapsed: 0.1s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed: 0.1s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks | elapsed: 0.0s
[Parallel(n_jobs=8)]: Done 146 tasks | elapsed: 0.0s
[Parallel(n_jobs=8)]: Done 349 tasks | elapsed: 0.0s
[Parallel(n_jobs=8)]: Done 632 tasks | elapsed: 0.0s
[Parallel(n_jobs=8)]: Done 997 tasks | elapsed: 0.0s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed: 0.0s finished

[CV] ... max_features=12, total= 1.8s
[CV] max_features=12 ...

[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.
[Parallel(n_jobs=-1)]: Done 34 tasks | elapsed: 0.0s
[Parallel(n_jobs=-1)]: Done 1024 out of 1024 | elapsed: 1.0s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks | elapsed: 0.0s
[Parallel(n_jobs=8)]: Done 146 tasks | elapsed: 0.0s
[Parallel(n_jobs=8)]: Done 349 tasks | elapsed: 0.0s
[Parallel(n_jobs=8)]: Done 632 tasks | elapsed: 0.0s
[Parallel(n_jobs=8)]: Done 997 tasks | elapsed: 0.1s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed: 0.1s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks | elapsed: 0.0s
[Parallel(n_jobs=8)]: Done 146 tasks | elapsed: 0.0s
[Parallel(n_jobs=8)]: Done 349 tasks | elapsed: 0.0s
[Parallel(n_jobs=8)]: Done 632 tasks | elapsed: 0.0s
[Parallel(n_jobs=8)]: Done 997 tasks | elapsed: 0.0s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed: 0.1s finished

[CV] ... max_features=12, total= 1.8s
[CV] max_features=12 ...

[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.
[Parallel(n_jobs=-1)]: Done 34 tasks | elapsed: 0.0s
[Parallel(n_jobs=-1)]: Done 1024 out of 1024 | elapsed: 1.0s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks | elapsed: 0.0s

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[Parallel(n_jobs=8)]: Done 146 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.0s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks       | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.0s finished

[CV] ... max_features=12, total=    1.8s
[CV] max_features=12 ...

[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.
[Parallel(n_jobs=-1)]: Done 34 tasks      | elapsed:    0.0s
[Parallel(n_jobs=-1)]: Done 1024 out of 1024 | elapsed:    0.9s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks       | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks      | elapsed:    0.0s
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[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.0s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks       | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.0s finished

[CV] ... max_features=12, total=    1.7s

[Parallel(n_jobs=1)]: Done 30 out of 30 | elapsed:   43.6s finished
[Parallel(n_jobs=-1)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=-1)]: Done 25 tasks      | elapsed:    0.0s

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[Parallel(n_jobs=-1)]: Done 146 tasks | elapsed: 0.1s

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[Parallel(n_jobs=-1)]: Done 349 tasks      | elapsed:    0.4s

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[Parallel(n_jobs=-1)]: Done 632 tasks      | elapsed:    0.7s

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[Parallel(n_jobs=-1)]: Done 997 tasks      | elapsed:    1.3s
[Parallel(n_jobs=-1)]: Done 1024 out of 1024 | elapsed:    1.3s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks     | elapsed:    0.1s
[Parallel(n_jobs=8)]: Done 997 tasks     | elapsed:    0.2s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.2s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks     | elapsed:    0.1s
[Parallel(n_jobs=8)]: Done 997 tasks     | elapsed:    0.3s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.3s finished
[Parallel(n_jobs=-1)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=-1)]: Done 25 tasks      | elapsed:    0.0s

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[Parallel(n_jobs=-1)]: Done 146 tasks | elapsed: 0.1s

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[Parallel(n_jobs=-1)]: Done 349 tasks      | elapsed:    0.4s

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[Parallel(n_jobs=-1)]: Done 632 tasks | elapsed: 0.8s

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[Parallel(n_jobs=-1)]: Done 997 tasks      | elapsed:    1.3s
[Parallel(n_jobs=-1)]: Done 1024 out of 1024 | elapsed:    1.3s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks     | elapsed:    0.1s
[Parallel(n_jobs=8)]: Done 997 tasks     | elapsed:    0.2s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.2s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks     | elapsed:    0.1s
[Parallel(n_jobs=8)]: Done 997 tasks     | elapsed:    0.2s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.2s finished
[Parallel(n_jobs=-1)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=-1)]: Done 25 tasks      | elapsed:    0.0s

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[Parallel(n_jobs=-1)]: Done 146 tasks      | elapsed:    0.1s

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[Parallel(n_jobs=-1)]: Done 349 tasks | elapsed: 0.4s
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[Parallel(n_jobs=-1)]: Done 632 tasks | elapsed: 0.7s

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[Parallel(n_jobs=-1)]: Done 997 tasks | elapsed: 1.2s
[Parallel(n_jobs=-1)]: Done 1024 out of 1024 | elapsed: 1.3s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks | elapsed: 0.0s
[Parallel(n_jobs=8)]: Done 146 tasks | elapsed: 0.0s
[Parallel(n_jobs=8)]: Done 349 tasks | elapsed: 0.0s
[Parallel(n_jobs=8)]: Done 632 tasks | elapsed: 0.1s
[Parallel(n_jobs=8)]: Done 997 tasks | elapsed: 0.2s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed: 0.2s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks | elapsed: 0.0s
[Parallel(n_jobs=8)]: Done 146 tasks | elapsed: 0.0s
[Parallel(n_jobs=8)]: Done 349 tasks | elapsed: 0.0s
[Parallel(n_jobs=8)]: Done 632 tasks | elapsed: 0.1s
[Parallel(n_jobs=8)]: Done 997 tasks | elapsed: 0.2s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed: 0.2s finished
[Parallel(n_jobs=1)]: Using backend SequentialBackend with 1 concurrent workers.

Trial 5

Fitting 5 folds for each of 6 candidates, totalling 30 fits

[CV] max_features=1 ...

[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.
[Parallel(n_jobs=-1)]: Done 34 tasks | elapsed: 0.0s
[Parallel(n_jobs=-1)]: Done 1024 out of 1024 | elapsed: 0.5s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks | elapsed: 0.0s
[Parallel(n_jobs=8)]: Done 146 tasks | elapsed: 0.0s
[Parallel(n_jobs=8)]: Done 349 tasks | elapsed: 0.0s
[Parallel(n_jobs=8)]: Done 632 tasks | elapsed: 0.0s
[Parallel(n_jobs=8)]: Done 997 tasks | elapsed: 0.1s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed: 0.1s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks | elapsed: 0.0s
[Parallel(n_jobs=8)]: Done 146 tasks | elapsed: 0.0s

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[Parallel(n_jobs=8)]: Done 349 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks      | elapsed:    0.1s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.1s finished

[CV] ... max_features=1, total=    1.3s
[CV] max_features=1 ...

[Parallel(n_jobs=1)]: Done   1 out of   1 | elapsed:    1.2s remaining:    0.0s
[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.
[Parallel(n_jobs=-1)]: Done  34 tasks      | elapsed:    0.0s
[Parallel(n_jobs=-1)]: Done 1024 out of 1024 | elapsed:    0.4s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done  25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.0s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done  25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.0s finished

[CV] ... max_features=1, total=    1.3s
[CV] max_features=1 ...

[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.
[Parallel(n_jobs=-1)]: Done  34 tasks      | elapsed:    0.0s
[Parallel(n_jobs=-1)]: Done 1024 out of 1024 | elapsed:    0.5s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done  25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.0s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done  25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks      | elapsed:    0.1s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.1s finished

[CV] ... max_features=1, total=    1.3s
[CV] max_features=1 ...

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[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.
[Parallel(n_jobs=-1)]: Done 34 tasks      | elapsed:    0.0s
[Parallel(n_jobs=-1)]: Done 1024 out of 1024 | elapsed:    0.5s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.0s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks     | elapsed:    0.1s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.1s finished

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[CV] ... max_features=1, total= 1.3s
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[CV] max_features=1 ...
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[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.
[Parallel(n_jobs=-1)]: Done 34 tasks      | elapsed:    0.0s
[Parallel(n_jobs=-1)]: Done 1024 out of 1024 | elapsed:    0.5s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.0s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks     | elapsed:    0.1s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.1s finished

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[CV] ... max_features=1, total= 1.3s
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[CV] max_features=2 ...
```

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[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.
[Parallel(n_jobs=-1)]: Done 34 tasks      | elapsed:    0.0s
[Parallel(n_jobs=-1)]: Done 1024 out of 1024 | elapsed:    0.5s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks     | elapsed:    0.0s

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[Parallel(n_jobs=8)]: Done 997 tasks      | elapsed:    0.1s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.1s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks     | elapsed:    0.1s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.1s finished

[CV] ... max_features=2, total=    1.3s
[CV] max_features=2 ...

[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.
[Parallel(n_jobs=-1)]: Done 34 tasks     | elapsed:    0.0s
[Parallel(n_jobs=-1)]: Done 1024 out of 1024 | elapsed:    0.5s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.0s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.0s finished

[CV] ... max_features=2, total=    1.3s
[CV] max_features=2 ...

[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.
[Parallel(n_jobs=-1)]: Done 34 tasks     | elapsed:    0.0s
[Parallel(n_jobs=-1)]: Done 1024 out of 1024 | elapsed:    0.4s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks     | elapsed:    0.1s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.1s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks     | elapsed:    0.0s

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[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.0s finished
[CV] ... max_features=2, total=    1.3s
[CV] max_features=2 ...

[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.
[Parallel(n_jobs=-1)]: Done  34 tasks      | elapsed:    0.0s
[Parallel(n_jobs=-1)]: Done 1024 out of 1024 | elapsed:    0.5s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done  25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks      | elapsed:    0.1s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.1s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done  25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks      | elapsed:    0.1s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.1s finished

[CV] ... max_features=2, total=    1.3s
[CV] max_features=2 ...

[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.
[Parallel(n_jobs=-1)]: Done  34 tasks      | elapsed:    0.0s
[Parallel(n_jobs=-1)]: Done 1024 out of 1024 | elapsed:    0.5s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done  25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks      | elapsed:    0.1s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.1s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done  25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.0s finished

[CV] ... max_features=2, total=    1.4s
[CV] max_features=4 ...

[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.
[Parallel(n_jobs=-1)]: Done  34 tasks      | elapsed:    0.0s
[Parallel(n_jobs=-1)]: Done 1024 out of 1024 | elapsed:    0.5s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.

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[Parallel(n_jobs=8)]: Done 25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks     | elapsed:    0.1s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.1s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.1s finished

[CV] ... max_features=4, total=    1.4s
[CV] max_features=4 ...

[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.
[Parallel(n_jobs=-1)]: Done 34 tasks      | elapsed:    0.0s
[Parallel(n_jobs=-1)]: Done 1024 out of 1024 | elapsed:    0.7s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks     | elapsed:    0.1s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.1s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.0s finished

[CV] ... max_features=4, total=    1.5s
[CV] max_features=4 ...

[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.
[Parallel(n_jobs=-1)]: Done 34 tasks      | elapsed:    0.0s
[Parallel(n_jobs=-1)]: Done 1024 out of 1024 | elapsed:    0.6s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.0s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks      | elapsed:    0.0s

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[Parallel(n_jobs=8)]: Done 146 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.1s finished

[CV] ... max_features=4, total=    1.4s
[CV] max_features=4 ...

[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.
[Parallel(n_jobs=-1)]: Done 34 tasks      | elapsed:    0.0s
[Parallel(n_jobs=-1)]: Done 1024 out of 1024 | elapsed:    0.5s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.0s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.0s finished

[CV] ... max_features=4, total=    1.4s
[CV] max_features=4 ...

[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.
[Parallel(n_jobs=-1)]: Done 34 tasks      | elapsed:    0.0s
[Parallel(n_jobs=-1)]: Done 1024 out of 1024 | elapsed:    0.6s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks      | elapsed:    0.1s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.1s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.0s finished

[CV] ... max_features=4, total=    1.4s
[CV] max_features=6 ...

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[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.
[Parallel(n_jobs=-1)]: Done 34 tasks      | elapsed:    0.0s
[Parallel(n_jobs=-1)]: Done 1024 out of 1024 | elapsed:    0.7s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks     | elapsed:    0.1s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.1s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks     | elapsed:    0.1s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.1s finished

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[CV] ... max_features=6, total= 1.5s

[CV] max_features=6 ...

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[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.
[Parallel(n_jobs=-1)]: Done 34 tasks      | elapsed:    0.0s
[Parallel(n_jobs=-1)]: Done 1024 out of 1024 | elapsed:    0.7s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks     | elapsed:    0.1s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.1s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks     | elapsed:    0.1s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.1s finished

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[CV] ... max_features=6, total= 1.5s

[CV] max_features=6 ...

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[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.
[Parallel(n_jobs=-1)]: Done 34 tasks      | elapsed:    0.0s
[Parallel(n_jobs=-1)]: Done 1024 out of 1024 | elapsed:    0.7s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks     | elapsed:    0.0s

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[Parallel(n_jobs=8)]: Done 997 tasks      | elapsed:    0.1s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.1s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.0s finished

[CV] ... max_features=6, total=    1.5s
[CV] max_features=6 ...

[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.
[Parallel(n_jobs=-1)]: Done 34 tasks      | elapsed:    0.0s
[Parallel(n_jobs=-1)]: Done 1024 out of 1024 | elapsed:    0.7s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.0s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.0s finished

[CV] ... max_features=6, total=    1.5s
[CV] max_features=6 ...

[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.
[Parallel(n_jobs=-1)]: Done 34 tasks      | elapsed:    0.0s
[Parallel(n_jobs=-1)]: Done 1024 out of 1024 | elapsed:    0.7s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks     | elapsed:    0.1s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.1s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks     | elapsed:    0.1s

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[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.1s finished
[CV] ... max_features=6, total=    1.5s
[CV] max_features=8 ...

[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.
[Parallel(n_jobs=-1)]: Done  34 tasks      | elapsed:    0.0s
[Parallel(n_jobs=-1)]: Done 1024 out of 1024 | elapsed:    0.8s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done  25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks      | elapsed:    0.1s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.1s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done  25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks      | elapsed:    0.1s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.1s finished

[CV] ... max_features=8, total=    1.6s
[CV] max_features=8 ...

[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.
[Parallel(n_jobs=-1)]: Done  34 tasks      | elapsed:    0.0s
[Parallel(n_jobs=-1)]: Done 1024 out of 1024 | elapsed:    0.8s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done  25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.0s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done  25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks      | elapsed:    0.1s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.1s finished

[CV] ... max_features=8, total=    1.6s
[CV] max_features=8 ...

[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.
[Parallel(n_jobs=-1)]: Done  34 tasks      | elapsed:    0.0s
[Parallel(n_jobs=-1)]: Done 1024 out of 1024 | elapsed:    0.8s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.

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[Parallel(n_jobs=8)]: Done 25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks     | elapsed:    0.1s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.1s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks     | elapsed:    0.1s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.1s finished

[CV] ... max_features=8, total=    1.6s
[CV] max_features=8 ...

[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.
[Parallel(n_jobs=-1)]: Done 34 tasks      | elapsed:    0.0s
[Parallel(n_jobs=-1)]: Done 1024 out of 1024 | elapsed:    0.7s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.0s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.0s finished

[CV] ... max_features=8, total=    1.6s
[CV] max_features=8 ...

[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.
[Parallel(n_jobs=-1)]: Done 34 tasks      | elapsed:    0.0s
[Parallel(n_jobs=-1)]: Done 1024 out of 1024 | elapsed:    0.7s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks     | elapsed:    0.1s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.1s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks      | elapsed:    0.0s

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[Parallel(n_jobs=8)]: Done 146 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.0s finished

[CV] ... max_features=8, total=    1.5s
[CV] max_features=12 ...

[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.
[Parallel(n_jobs=-1)]: Done 34 tasks      | elapsed:    0.0s
[Parallel(n_jobs=-1)]: Done 1024 out of 1024 | elapsed:    0.9s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.0s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.0s finished

[CV] ... max_features=12, total=    1.8s
[CV] max_features=12 ...

[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.
[Parallel(n_jobs=-1)]: Done 34 tasks      | elapsed:    0.0s
[Parallel(n_jobs=-1)]: Done 1024 out of 1024 | elapsed:    0.8s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.0s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.0s finished

[CV] ... max_features=12, total=    1.7s
[CV] max_features=12 ...

```

```

[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.
[Parallel(n_jobs=-1)]: Done 34 tasks      | elapsed:    0.0s
[Parallel(n_jobs=-1)]: Done 1024 out of 1024 | elapsed:    0.8s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.0s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.0s finished

```

[CV] ... max_features=12, total= 1.6s

[CV] max_features=12 ...

```

[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.
[Parallel(n_jobs=-1)]: Done 34 tasks      | elapsed:    0.0s
[Parallel(n_jobs=-1)]: Done 1024 out of 1024 | elapsed:    0.9s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.0s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.0s finished

```

[CV] ... max_features=12, total= 1.7s

[CV] max_features=12 ...

```

[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.
[Parallel(n_jobs=-1)]: Done 34 tasks      | elapsed:    0.0s
[Parallel(n_jobs=-1)]: Done 1024 out of 1024 | elapsed:    0.8s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks     | elapsed:    0.0s

```

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[Parallel(n_jobs=8)]: Done 997 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.0s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.0s finished

[CV] ... max_features=12, total=    1.6s

[Parallel(n_jobs=1)]: Done 30 out of 30 | elapsed:   43.9s finished
[Parallel(n_jobs=-1)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=-1)]: Done 25 tasks     | elapsed:    0.0s

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[Parallel(n_jobs=-1)]: Done 146 tasks      | elapsed:    0.1s

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[Parallel(n_jobs=-1)]: Done 349 tasks | elapsed: 0.4s

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[Parallel(n_jobs=-1)]: Done 632 tasks | elapsed: 0.8s

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[Parallel(n_jobs=-1)]: Done 997 tasks      | elapsed:    1.3s
[Parallel(n_jobs=-1)]: Done 1024 out of 1024 | elapsed:    1.3s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks     | elapsed:    0.0s

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[Parallel(n_jobs=8)]: Done 349 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks      | elapsed:    0.1s
[Parallel(n_jobs=8)]: Done 997 tasks      | elapsed:    0.2s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.2s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks       | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks      | elapsed:    0.1s
[Parallel(n_jobs=8)]: Done 997 tasks      | elapsed:    0.2s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.2s finished
[Parallel(n_jobs=-1)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=-1)]: Done 25 tasks       | elapsed:    0.0s
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[Parallel(n_jobs=-1)]: Done 146 tasks | elapsed: 0.1s

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[Parallel(n_jobs=-1)]: Done 349 tasks | elapsed: 0.4s

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[Parallel(n_jobs=-1)]: Done 632 tasks | elapsed: 0.7s

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[Parallel(n_jobs=-1)]: Done 997 tasks      | elapsed:    1.2s
[Parallel(n_jobs=-1)]: Done 1024 out of 1024 | elapsed:    1.2s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks     | elapsed:    0.0s

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[Parallel(n_jobs=8)]: Done 349 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks     | elapsed:    0.1s

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[Parallel(n_jobs=8)]: Done 997 tasks      | elapsed:    0.2s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.2s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks     | elapsed:    0.1s
[Parallel(n_jobs=8)]: Done 997 tasks     | elapsed:    0.2s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.2s finished
[Parallel(n_jobs=-1)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=-1)]: Done 25 tasks     | elapsed:    0.0s
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[Parallel(n_jobs=-1)]: Done 146 tasks      | elapsed:    0.1s


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[Parallel(n_jobs=-1)]: Done 349 tasks      | elapsed:    0.4s

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[Parallel(n_jobs=-1)]: Done 632 tasks | elapsed: 0.7s

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building tree 1005 of 1024
building tree 1006 of 1024
building tree 1007 of 1024
building tree 1008 of 1024building tree 1009 of 1024

building tree 1010 of 1024
building tree 1011 of 1024
building tree 1012 of 1024
building tree 1013 of 1024building tree 1014 of 1024
building tree 1015 of 1024
building tree 1016 of 1024
building tree 1017 of 1024

building tree 1018 of 1024building tree 1019 of 1024

building tree 1020 of 1024
building tree 1021 of 1024
building tree 1022 of 1024
building tree 1023 of 1024
building tree 1024 of 1024

[Parallel(n_jobs=-1)]: Done 997 tasks | elapsed: 1.2s
[Parallel(n_jobs=-1)]: Done 1024 out of 1024 | elapsed: 1.2s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks | elapsed: 0.0s
[Parallel(n_jobs=8)]: Done 146 tasks | elapsed: 0.0s
[Parallel(n_jobs=8)]: Done 349 tasks | elapsed: 0.0s
[Parallel(n_jobs=8)]: Done 632 tasks | elapsed: 0.1s
[Parallel(n_jobs=8)]: Done 997 tasks | elapsed: 0.2s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed: 0.2s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks | elapsed: 0.0s

```

[Parallel(n_jobs=8)]: Done 146 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks      | elapsed:    0.1s
[Parallel(n_jobs=8)]: Done 997 tasks      | elapsed:    0.2s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.2s finished

```

```
[51]: metrics_letter_P1_RF
```

```

[51]: array([[1.          , 1.          , 1.          , 0.98813333, 0.82587065,
            0.82230986],
            [1.          , 1.          , 1.          , 0.9876       , 0.81043129,
            0.8479916 ],
            [1.          , 1.          , 1.          , 0.9876       , 0.81533804,
            0.81881848],
            [1.          , 1.          , 1.          , 0.9866       , 0.78398314,
            0.81398768],
            [1.          , 1.          , 1.          , 0.9888       , 0.8284264 ,
            0.8319538 ]])

```

DT: LETTER P1

```

[52]: metrics_letter_P1_DT = np.zeros((5, 6))

for i in range(5):
    print("\n Trial", i+1)
    # randomly split the data. size of training data will be 5000
    X_train, X_test, Y_train, Y_test = train_test_split(X_letter, Y_letter_P1,
    ↪train_size = 5000)

    # initialize the classifier
    classifier_DT = DecisionTreeClassifier(random_state = 0)

    crit_list = ['gini', 'entropy']
    depth_list = [1, 2, 3, 4, 5]

    parameters = {'criterion': crit_list, 'max_depth': depth_list}

    search_clf = GridSearchCV(classifier_DT, parameters, cv =
    ↪StratifiedKFold(n_splits = 5),
                        scoring = ['accuracy', 'roc_auc_ovr', 'f1_micro'],
    ↪refit = False, verbose = 0, n_jobs = -1)
    match_model = search_clf.fit(X_train, Y_train)

    match_param = match_model.cv_results_['params'][np.argmin(match_model.
    ↪cv_results_['rank_test_roc_auc_ovr'])]
    classifier_DT.set_params(**match_param)
    classifier_DT.fit(X_train, Y_train)

```

```

Y_pred_train_auc = classifier_DT.predict(X_train)
Y_pred_test_auc = classifier_RF.predict(X_test)
metrics_letter_P1_DT[i, 2] = roc_auc_score(Y_train, Y_pred_train_auc)
metrics_letter_P1_DT[i, 5] = roc_auc_score(Y_test, Y_pred_test_auc)

match_param = match_model.cv_results_['params'][np.argmin(match_model.
→cv_results_['rank_test_accuracy'])]
classifier_DT.set_params(**match_param)
classifier_DT.fit(X_train, Y_train)
Y_pred_train_acc = classifier_DT.predict(X_train)
Y_pred_test_acc = classifier_DT.predict(X_test)
metrics_letter_P1_DT[i, 0] = accuracy_score(Y_train, Y_pred_train_acc)
metrics_letter_P1_DT[i, 3] = accuracy_score(Y_test, Y_pred_test_acc)

match_param = match_model.cv_results_['params'][np.argmin(match_model.
→cv_results_['rank_test_f1_micro'])]
classifier_DT.set_params(**match_param)
classifier_DT.fit(X_train, Y_train)
Y_pred_train_f1 = classifier_DT.predict(X_train)
Y_pred_test_f1 = classifier_DT.predict(X_test)
metrics_letter_P1_DT[i, 1] = f1_score(Y_train, Y_pred_train_f1)
metrics_letter_P1_DT[i, 4] = f1_score(Y_test, Y_pred_test_f1)

```

Trial 1

Fitting 5 folds for each of 10 candidates, totalling 50 fits

```

[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.
[Parallel(n_jobs=-1)]: Done 25 tasks      | elapsed:    0.5s
[Parallel(n_jobs=-1)]: Done 50 out of 50 | elapsed:    0.6s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks     | elapsed:    0.1s
[Parallel(n_jobs=8)]: Done 997 tasks     | elapsed:    0.2s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.2s finished
[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.

```

Trial 2

Fitting 5 folds for each of 10 candidates, totalling 50 fits

```

[Parallel(n_jobs=-1)]: Done 50 out of 50 | elapsed:    0.1s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks     | elapsed:    0.1s

```

```
[Parallel(n_jobs=8)]: Done 997 tasks      | elapsed:    0.2s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.2s finished
```

Trial 3

Fitting 5 folds for each of 10 candidates, totalling 50 fits

```
[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.
[Parallel(n_jobs=-1)]: Done 50 out of 50 | elapsed:    0.1s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks     | elapsed:    0.1s
[Parallel(n_jobs=8)]: Done 997 tasks     | elapsed:    0.2s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.2s finished
[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.
```

Trial 4

Fitting 5 folds for each of 10 candidates, totalling 50 fits

```
[Parallel(n_jobs=-1)]: Done 50 out of 50 | elapsed:    0.1s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks     | elapsed:    0.1s
[Parallel(n_jobs=8)]: Done 997 tasks     | elapsed:    0.2s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.2s finished
```

Trial 5

Fitting 5 folds for each of 10 candidates, totalling 50 fits

```
[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.
[Parallel(n_jobs=-1)]: Done 50 out of 50 | elapsed:    0.0s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks     | elapsed:    0.1s
[Parallel(n_jobs=8)]: Done 997 tasks     | elapsed:    0.2s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.2s finished
```

```
[53]: metrics_letter_P1_DT
```

```
[53]: array([[0.9748      , 0.69268293, 0.51015929, 0.97086667, 0.64729621,
            0.89481001],
            [0.9798      , 0.73209549, 0.87320556, 0.97426667, 0.6535009 ,
```

```

0.8842747 ],
[0.9784      , 0.7032967 , 0.51891944, 0.97266667, 0.64655172,
 0.89303127],
[0.977       , 0.63722397, 0.79066229, 0.97486667, 0.65124884,
 0.89408714],
[0.971       , 0.68817204, 0.50471698, 0.9642      , 0.57347101,
 0.89443207]])

```

LR: LETTER P2

```
[84]: Y_letter_P2 = Y_letter_P2.astype(float)
```

```
[85]: Y_letter_P2.isnull().values.any()
```

```
[85]: False
```

```
[86]: metrics_letter_P2_LR = np.zeros((5, 6))

for i in range(5):
    print("\n Trial", i+1)
    # randomly split the data. size of training data will be 5000
    X_train, X_test, Y_train, Y_test = train_test_split(X_letter_sc,
→Y_letter_P2, train_size = 5000)

    # initialize the classifier
    classifier_LR = LogisticRegression(penalty = 'l2', max_iter = 5000, solver
→= 'saga', verbose = 0, n_jobs = -1)

    C_list = [1e-4, 1e-3, 1e-2, 1e-1, 1e0, 1e1, 1e2, 1e3, 1e4, 0]

    parameters = {'C': C_list}

    search_clf = GridSearchCV(classifier_LR, parameters, cv =
→StratifiedKFold(n_splits = 5),
                        scoring = ['accuracy', 'roc_auc_ovr', 'f1_micro'],
→refit = False, verbose = 0)
    match_model = search_clf.fit(X_train, Y_train)

    match_param = match_model.cv_results_['params'][np.argmin(match_model.
→cv_results_['rank_test_roc_auc_ovr'])]
    classifier_LR.set_params(**match_param)
    classifier_LR.fit(X_train, Y_train)
    Y_pred_train_auc = classifier_LR.predict(X_train)
    Y_pred_test_auc = classifier_LR.predict(X_test)

```

```

metrics_letter_P2_LR[i, 2] = roc_auc_score(Y_train, Y_pred_train_auc)
metrics_letter_P2_LR[i, 5] = roc_auc_score(Y_test, Y_pred_test_auc)

match_param = match_model.cv_results_['params'][np.argmin(match_model.
→cv_results_['rank_test_accuracy'])]
classifier_LR.set_params(**match_param)
classifier_LR.fit(X_train, Y_train)
Y_pred_train_acc = classifier_LR.predict(X_train)
Y_pred_test_acc = classifier_LR.predict(X_test)
metrics_letter_P2_LR[i, 0] = accuracy_score(Y_train, Y_pred_train_acc)
metrics_letter_P2_LR[i, 3] = accuracy_score(Y_test, Y_pred_test_acc)

match_param = match_model.cv_results_['params'][np.argmin(match_model.
→cv_results_['rank_test_f1_micro'])]
classifier_LR.set_params(**match_param)
classifier_LR.fit(X_train, Y_train)
Y_pred_train_f1 = classifier_LR.predict(X_train)
Y_pred_test_f1 = classifier_LR.predict(X_test)
metrics_letter_P2_LR[i, 1] = f1_score(Y_train, Y_pred_train_f1)
metrics_letter_P2_LR[i, 4] = f1_score(Y_test, Y_pred_test_f1)

```

Trial 1

Fitting 5 folds for each of 10 candidates, totalling 50 fits

[CV] C=0.0001 ...

[Parallel(n_jobs=1)]: Using backend SequentialBackend with 1 concurrent workers.

[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.

[Parallel(n_jobs=-1)]: Done 1 out of 1 | elapsed: 0.8s finished

[Parallel(n_jobs=1)]: Done 1 out of 1 | elapsed: 0.8s remaining: 0.0s

[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.

[CV] ... C=0.0001, total= 0.9s

[CV] C=0.0001 ...

[Parallel(n_jobs=-1)]: Done 1 out of 1 | elapsed: 0.3s finished

[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.

[CV] ... C=0.0001, total= 0.4s

[CV] C=0.0001 ...

[Parallel(n_jobs=-1)]: Done 1 out of 1 | elapsed: 0.3s finished

[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.

[CV] ... C=0.0001, total= 0.4s

[CV] C=0.0001 ...

[Parallel(n_jobs=-1)]: Done 1 out of 1 | elapsed: 0.3s finished

[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.

[CV] ... C=0.0001, total= 0.4s


```

[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.
[Parallel(n_jobs=-1)]: Done   1 out of   1 | elapsed:   0.0s finished

[CV] ... C=1.0, total=   0.0s
[CV] C=1.0 ...
[CV] ... C=1.0, total=   0.0s
[CV] C=10.0 ...
[CV] ... C=10.0, total=   0.0s
[CV] C=10.0 ...
[CV] ... C=10.0, total=   0.0s
[CV] C=10.0 ...
[CV] ... C=10.0, total=   0.0s
[CV] C=10.0 ...
[CV] ... C=10.0, total=   0.0s
[CV] C=10.0 ...
[CV] ... C=10.0, total=   0.0s
[CV] C=100.0 ...
[CV] ... C=100.0, total=   0.0s

[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.
[Parallel(n_jobs=-1)]: Done   1 out of   1 | elapsed:   0.0s finished
[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.
[Parallel(n_jobs=-1)]: Done   1 out of   1 | elapsed:   0.0s finished
[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.
[Parallel(n_jobs=-1)]: Done   1 out of   1 | elapsed:   0.0s finished
[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.
[Parallel(n_jobs=-1)]: Done   1 out of   1 | elapsed:   0.0s finished
[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.
[Parallel(n_jobs=-1)]: Done   1 out of   1 | elapsed:   0.0s finished
[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.
[Parallel(n_jobs=-1)]: Done   1 out of   1 | elapsed:   0.0s finished
[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.
[Parallel(n_jobs=-1)]: Done   1 out of   1 | elapsed:   0.0s finished
[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.
[Parallel(n_jobs=-1)]: Done   1 out of   1 | elapsed:   0.0s finished
[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.
[Parallel(n_jobs=-1)]: Done   1 out of   1 | elapsed:   0.0s finished
[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.
[Parallel(n_jobs=-1)]: Done   1 out of   1 | elapsed:   0.0s finished

[CV] C=100.0 ...
[CV] ... C=100.0, total=   0.0s
[CV] C=100.0 ...
[CV] ... C=100.0, total=   0.0s
[CV] C=100.0 ...
[CV] ... C=100.0, total=   0.0s
[CV] C=100.0 ...
[CV] ... C=100.0, total=   0.0s
[CV] C=1000.0 ...
[CV] ... C=1000.0, total=   0.0s

```

```
[CV] C=1000.0 ...
[CV] ... C=1000.0, total= 0.0s
[CV] C=1000.0 ...
[CV] ... C=1000.0, total= 0.0s
[CV] C=1000.0 ...
[CV] ... C=1000.0, total= 0.0s
[CV] C=1000.0 ...
```

```
[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.
[Parallel(n_jobs=-1)]: Done 1 out of 1 | elapsed: 0.0s finished
[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.
[Parallel(n_jobs=-1)]: Done 1 out of 1 | elapsed: 0.0s finished
[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.
[Parallel(n_jobs=-1)]: Done 1 out of 1 | elapsed: 0.0s finished
[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.
[Parallel(n_jobs=-1)]: Done 1 out of 1 | elapsed: 0.0s finished
[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.
[Parallel(n_jobs=-1)]: Done 1 out of 1 | elapsed: 0.0s finished
[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.
```

```
[CV] ... C=1000.0, total= 0.0s
[CV] C=10000.0 ...
[CV] ... C=10000.0, total= 0.0s
[CV] C=10000.0 ...
[CV] ... C=10000.0, total= 0.0s
[CV] C=10000.0 ...
[CV] ... C=10000.0, total= 0.0s
[CV] C=10000.0 ...
[CV] ... C=10000.0, total= 0.0s
[CV] C=10000.0 ...
[CV] ... C=10000.0, total= 0.0s
[CV] C=0 ...
```

```
D:\CodeNameSolus\Apps\lib\site-
packages\sklearn\model_selection\_validation.py:536: FitFailedWarning: Estimator
fit failed. The score on this train-test partition for these parameters will be
set to nan. Details:
ZeroDivisionError: float division by zero
```

```
FitFailedWarning)
[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.
[CV] ... C=0, total= 0.1s
[CV] C=0 ...
```

```
D:\CodeNameSolus\Apps\lib\site-
packages\sklearn\model_selection\_validation.py:536: FitFailedWarning: Estimator
fit failed. The score on this train-test partition for these parameters will be
set to nan. Details:
ZeroDivisionError: float division by zero
```

```

FitFailedWarning)
[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.

[CV] ... C=0, total=    1.0s
[CV] C=0 ...

D:\CodeNameSolus\Apps\lib\site-
packages\sklearn\model_selection\_validation.py:536: FitFailedWarning: Estimator
fit failed. The score on this train-test partition for these parameters will be
set to nan. Details:
ZeroDivisionError: float division by zero

FitFailedWarning)
[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.

[CV] ... C=0, total=    1.0s
[CV] C=0 ...

D:\CodeNameSolus\Apps\lib\site-
packages\sklearn\model_selection\_validation.py:536: FitFailedWarning: Estimator
fit failed. The score on this train-test partition for these parameters will be
set to nan. Details:
ZeroDivisionError: float division by zero

FitFailedWarning)
[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.

[CV] ... C=0, total=    1.0s
[CV] C=0 ...

D:\CodeNameSolus\Apps\lib\site-
packages\sklearn\model_selection\_validation.py:536: FitFailedWarning: Estimator
fit failed. The score on this train-test partition for these parameters will be
set to nan. Details:
ZeroDivisionError: float division by zero

FitFailedWarning)
[Parallel(n_jobs=1)]: Done 50 out of 50 | elapsed:    8.6s finished
[Parallel(n_jobs=-1)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=-1)]: Done 1 out of 1 | elapsed:    0.0s finished
[Parallel(n_jobs=-1)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=-1)]: Done 1 out of 1 | elapsed:    0.0s finished

[CV] ... C=0, total=    0.9s
convergence after 16 epochs took 0 seconds
convergence after 16 epochs took 0 seconds

[Parallel(n_jobs=-1)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=-1)]: Done 1 out of 1 | elapsed:    0.0s finished
[Parallel(n_jobs=1)]: Using backend SequentialBackend with 1 concurrent workers.
[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.

```

convergence after 16 epochs took 0 seconds

Trial 2

Fitting 5 folds for each of 10 candidates, totalling 50 fits

[CV] C=0.0001 ...

[Parallel(n_jobs=-1)]: Done 1 out of 1 | elapsed: 0.9s finished

[Parallel(n_jobs=1)]: Done 1 out of 1 | elapsed: 0.9s remaining: 0.0s

[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.

[CV] ... C=0.0001, total= 1.0s

[CV] C=0.0001 ...

[Parallel(n_jobs=-1)]: Done 1 out of 1 | elapsed: 0.3s finished

[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.

[CV] ... C=0.0001, total= 0.4s

[CV] C=0.0001 ...

[Parallel(n_jobs=-1)]: Done 1 out of 1 | elapsed: 0.3s finished

[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.

[CV] ... C=0.0001, total= 0.4s

[CV] C=0.0001 ...

[Parallel(n_jobs=-1)]: Done 1 out of 1 | elapsed: 0.3s finished

[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.

[CV] ... C=0.0001, total= 0.4s

[CV] C=0.0001 ...

[Parallel(n_jobs=-1)]: Done 1 out of 1 | elapsed: 0.3s finished

[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.

[CV] ... C=0.0001, total= 0.4s

[CV] C=0.001 ...

[Parallel(n_jobs=-1)]: Done 1 out of 1 | elapsed: 0.3s finished

[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.

[CV] ... C=0.001, total= 0.4s

[CV] C=0.001 ...

[Parallel(n_jobs=-1)]: Done 1 out of 1 | elapsed: 0.3s finished

[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.

[CV] ... C=0.001, total= 0.4s

[CV] C=0.001 ...

[Parallel(n_jobs=-1)]: Done 1 out of 1 | elapsed: 0.3s finished

[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.

[Parallel(n_jobs=-1)]: Done 1 out of 1 | elapsed: 0.0s finished

[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.

[Parallel(n_jobs=-1)]: Done 1 out of 1 | elapsed: 0.0s finished

[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.

[illegible]

```

[CV] C=0.1 ...
[CV] ... C=0.1, total= 0.0s
[CV] C=0.1 ...
[CV] ... C=0.1, total= 0.0s
[CV] C=0.1 ...
[CV] ... C=0.1, total= 0.0s
[CV] C=0.1 ...
[CV] ... C=0.1, total= 0.0s
[CV] C=1.0 ...
[CV] ... C=1.0, total= 0.0s
[CV] C=1.0 ...
[CV] ... C=1.0, total= 0.0s
[CV] C=1.0 ...
[CV] ... C=1.0, total= 0.0s
[CV] C=1.0 ...
[CV] ... C=1.0, total= 0.0s
[CV] C=1.0 ...
[CV] ... C=1.0, total= 0.0s
[CV] C=1.0 ...
[CV] ... C=1.0, total= 0.0s
[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.
[Parallel(n_jobs=-1)]: Done 1 out of 1 | elapsed: 0.0s finished
[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.
[Parallel(n_jobs=-1)]: Done 1 out of 1 | elapsed: 0.0s finished
[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.
[Parallel(n_jobs=-1)]: Done 1 out of 1 | elapsed: 0.0s finished
[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.
[Parallel(n_jobs=-1)]: Done 1 out of 1 | elapsed: 0.0s finished
[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.
[Parallel(n_jobs=-1)]: Done 1 out of 1 | elapsed: 0.0s finished
[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.
[Parallel(n_jobs=-1)]: Done 1 out of 1 | elapsed: 0.0s finished
[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.
[Parallel(n_jobs=-1)]: Done 1 out of 1 | elapsed: 0.0s finished
[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.
[Parallel(n_jobs=-1)]: Done 1 out of 1 | elapsed: 0.0s finished
[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.
[Parallel(n_jobs=-1)]: Done 1 out of 1 | elapsed: 0.0s finished
[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.
[Parallel(n_jobs=-1)]: Done 1 out of 1 | elapsed: 0.0s finished
[CV] C=10.0 ...
[CV] ... C=10.0, total= 0.0s
[CV] C=10.0 ...
[CV] ... C=10.0, total= 0.0s
[CV] C=10.0 ...
[CV] ... C=10.0, total= 0.0s
[CV] C=10.0 ...
[CV] ... C=10.0, total= 0.0s
[CV] C=10.0 ...
[CV] ... C=10.0, total= 0.0s
[CV] C=100.0 ...

```

```

[CV] ... C=100.0, total= 0.0s
[CV] C=100.0 ...
[CV] ... C=100.0, total= 0.0s
[CV] C=100.0 ...
[CV] ... C=100.0, total= 0.0s
[CV] C=100.0 ...

[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.
[Parallel(n_jobs=-1)]: Done 1 out of 1 | elapsed: 0.0s finished
[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.
[Parallel(n_jobs=-1)]: Done 1 out of 1 | elapsed: 0.0s finished
[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.
[Parallel(n_jobs=-1)]: Done 1 out of 1 | elapsed: 0.0s finished
[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.
[Parallel(n_jobs=-1)]: Done 1 out of 1 | elapsed: 0.0s finished
[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.
[Parallel(n_jobs=-1)]: Done 1 out of 1 | elapsed: 0.0s finished
[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.
[Parallel(n_jobs=-1)]: Done 1 out of 1 | elapsed: 0.0s finished
[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.
[Parallel(n_jobs=-1)]: Done 1 out of 1 | elapsed: 0.0s finished

[CV] ... C=100.0, total= 0.0s
[CV] C=100.0 ...
[CV] ... C=100.0, total= 0.0s
[CV] C=1000.0 ...
[CV] ... C=1000.0, total= 0.0s
[CV] C=1000.0 ...
[CV] ... C=1000.0, total= 0.0s
[CV] C=1000.0 ...
[CV] ... C=1000.0, total= 0.0s
[CV] C=1000.0 ...
[CV] ... C=1000.0, total= 0.0s
[CV] C=10000.0 ...
[CV] ... C=10000.0, total= 0.0s
[CV] C=10000.0 ...

[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.
[Parallel(n_jobs=-1)]: Done 1 out of 1 | elapsed: 0.0s finished
[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.
[Parallel(n_jobs=-1)]: Done 1 out of 1 | elapsed: 0.0s finished
[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.
[Parallel(n_jobs=-1)]: Done 1 out of 1 | elapsed: 0.0s finished
[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.
[Parallel(n_jobs=-1)]: Done 1 out of 1 | elapsed: 0.0s finished
[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.
[Parallel(n_jobs=-1)]: Done 1 out of 1 | elapsed: 0.0s finished
[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.
[Parallel(n_jobs=-1)]: Done 1 out of 1 | elapsed: 0.0s finished

```

[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.

[CV] ... C=10000.0, total= 0.0s

[CV] C=10000.0 ...

[CV] ... C=10000.0, total= 0.0s

[CV] C=10000.0 ...

[CV] ... C=10000.0, total= 0.0s

[CV] C=10000.0 ...

[CV] ... C=10000.0, total= 0.0s

[CV] C=0 ...

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packages\sklearn\model_selection_validation.py:536: FitFailedWarning: Estimator fit failed. The score on this train-test partition for these parameters will be set to nan. Details:

ZeroDivisionError: float division by zero

FitFailedWarning)

[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.

[CV] ... C=0, total= 0.1s

[CV] C=0 ...

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packages\sklearn\model_selection_validation.py:536: FitFailedWarning: Estimator fit failed. The score on this train-test partition for these parameters will be set to nan. Details:

ZeroDivisionError: float division by zero

FitFailedWarning)

[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.

[CV] ... C=0, total= 0.9s

[CV] C=0 ...

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packages\sklearn\model_selection_validation.py:536: FitFailedWarning: Estimator fit failed. The score on this train-test partition for these parameters will be set to nan. Details:

ZeroDivisionError: float division by zero

FitFailedWarning)

[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.

[CV] ... C=0, total= 0.9s

[CV] C=0 ...

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packages\sklearn\model_selection_validation.py:536: FitFailedWarning: Estimator fit failed. The score on this train-test partition for these parameters will be set to nan. Details:

ZeroDivisionError: float division by zero


```

FitFailedWarning)
[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.

[CV] ... C=0, total= 0.9s
[CV] C=0 ...

D:\CodeNameSolus\Apps\lib\site-
packages\sklearn\model_selection\_validation.py:536: FitFailedWarning: Estimator
fit failed. The score on this train-test partition for these parameters will be
set to nan. Details:
ZeroDivisionError: float division by zero

FitFailedWarning)
[Parallel(n_jobs=1)]: Done 50 out of 50 | elapsed: 8.3s finished
[Parallel(n_jobs=-1)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=-1)]: Done 1 out of 1 | elapsed: 0.0s finished
[Parallel(n_jobs=-1)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=-1)]: Done 1 out of 1 | elapsed: 0.0s finished

[CV] ... C=0, total= 0.9s
convergence after 16 epochs took 0 seconds
convergence after 16 epochs took 0 seconds

[Parallel(n_jobs=-1)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=-1)]: Done 1 out of 1 | elapsed: 0.0s finished
[Parallel(n_jobs=1)]: Using backend SequentialBackend with 1 concurrent workers.
[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.

convergence after 14 epochs took 0 seconds

Trial 3
Fitting 5 folds for each of 10 candidates, totalling 50 fits
[CV] C=0.0001 ...

[Parallel(n_jobs=-1)]: Done 1 out of 1 | elapsed: 0.8s finished
[Parallel(n_jobs=1)]: Done 1 out of 1 | elapsed: 0.8s remaining: 0.0s
[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.

[CV] ... C=0.0001, total= 0.9s
[CV] C=0.0001 ...

[Parallel(n_jobs=-1)]: Done 1 out of 1 | elapsed: 0.3s finished
[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.

[CV] ... C=0.0001, total= 0.4s
[CV] C=0.0001 ...

[Parallel(n_jobs=-1)]: Done 1 out of 1 | elapsed: 0.3s finished
[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.

[CV] ... C=0.0001, total= 0.4s
[CV] C=0.0001 ...

```

```

[Parallel(n_jobs=-1)]: Done 1 out of 1 | elapsed: 0.3s finished
[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.

[CV] ... C=0.0001, total= 0.4s
[CV] C=0.0001 ...

[Parallel(n_jobs=-1)]: Done 1 out of 1 | elapsed: 0.3s finished
[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.

[CV] ... C=0.0001, total= 0.4s
[CV] C=0.001 ...

[Parallel(n_jobs=-1)]: Done 1 out of 1 | elapsed: 0.3s finished
[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.

[CV] ... C=0.001, total= 0.4s
[CV] C=0.001 ...

[Parallel(n_jobs=-1)]: Done 1 out of 1 | elapsed: 0.3s finished
[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.
[Parallel(n_jobs=-1)]: Done 1 out of 1 | elapsed: 0.0s finished
[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.
[Parallel(n_jobs=-1)]: Done 1 out of 1 | elapsed: 0.0s finished
[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.
[Parallel(n_jobs=-1)]: Done 1 out of 1 | elapsed: 0.0s finished
[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.
[Parallel(n_jobs=-1)]: Done 1 out of 1 | elapsed: 0.0s finished
[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.
[Parallel(n_jobs=-1)]: Done 1 out of 1 | elapsed: 0.0s finished
[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.
[Parallel(n_jobs=-1)]: Done 1 out of 1 | elapsed: 0.0s finished
[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.
[Parallel(n_jobs=-1)]: Done 1 out of 1 | elapsed: 0.0s finished

[CV] ... C=0.001, total= 0.4s
[CV] C=0.001 ...
[CV] ... C=0.001, total= 0.0s
[CV] C=0.001 ...
[CV] ... C=0.001, total= 0.0s
[CV] C=0.01 ...
[CV] ... C=0.01, total= 0.0s
[CV] C=0.01 ...
[CV] ... C=0.01, total= 0.0s
[CV] C=0.01 ...

```

```

[CV] ... C=0.01, total= 0.0s
[CV] C=0.01 ...
[CV] ... C=0.01, total= 0.0s
[CV] C=0.01 ...
[CV] ... C=0.01, total= 0.0s
[CV] C=0.1 ...

[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.
[Parallel(n_jobs=-1)]: Done 1 out of 1 | elapsed: 0.0s finished
[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.
[Parallel(n_jobs=-1)]: Done 1 out of 1 | elapsed: 0.0s finished
[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.
[Parallel(n_jobs=-1)]: Done 1 out of 1 | elapsed: 0.0s finished
[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.
[Parallel(n_jobs=-1)]: Done 1 out of 1 | elapsed: 0.0s finished
[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.
[Parallel(n_jobs=-1)]: Done 1 out of 1 | elapsed: 0.0s finished
[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.
[Parallel(n_jobs=-1)]: Done 1 out of 1 | elapsed: 0.0s finished
[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.
[Parallel(n_jobs=-1)]: Done 1 out of 1 | elapsed: 0.0s finished
[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.
[Parallel(n_jobs=-1)]: Done 1 out of 1 | elapsed: 0.0s finished
[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.
[Parallel(n_jobs=-1)]: Done 1 out of 1 | elapsed: 0.0s finished

[CV] ... C=0.1, total= 0.0s
[CV] C=0.1 ...
[CV] ... C=0.1, total= 0.0s
[CV] C=0.1 ...
[CV] ... C=0.1, total= 0.0s
[CV] C=0.1 ...
[CV] ... C=0.1, total= 0.0s
[CV] C=0.1 ...
[CV] ... C=0.1, total= 0.0s
[CV] C=1.0 ...
[CV] ... C=1.0, total= 0.0s
[CV] C=1.0 ...
[CV] ... C=1.0, total= 0.0s
[CV] C=1.0 ...
[CV] ... C=1.0, total= 0.0s
[CV] C=1.0 ...
[CV] ... C=1.0, total= 0.0s
[CV] C=1.0 ...

[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.
[Parallel(n_jobs=-1)]: Done 1 out of 1 | elapsed: 0.0s finished
[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.
[Parallel(n_jobs=-1)]: Done 1 out of 1 | elapsed: 0.0s finished
[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.
[Parallel(n_jobs=-1)]: Done 1 out of 1 | elapsed: 0.0s finished

```



```

[CV] C=100.0 ...
[CV] ... C=100.0, total= 0.0s
[CV] C=1000.0 ...
[CV] ... C=1000.0, total= 0.0s
[CV] C=1000.0 ...
[CV] ... C=1000.0, total= 0.0s
[CV] C=1000.0 ...
[CV] ... C=1000.0, total= 0.0s
[CV] C=1000.0 ...
[CV] ... C=1000.0, total= 0.0s
[CV] C=10000.0 ...
[CV] ... C=10000.0, total= 0.0s
[CV] C=10000.0 ...

[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.
[Parallel(n_jobs=-1)]: Done 1 out of 1 | elapsed: 0.0s finished
[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.
[Parallel(n_jobs=-1)]: Done 1 out of 1 | elapsed: 0.0s finished
[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.
[Parallel(n_jobs=-1)]: Done 1 out of 1 | elapsed: 0.0s finished
[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.
[Parallel(n_jobs=-1)]: Done 1 out of 1 | elapsed: 0.0s finished
[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.
[Parallel(n_jobs=-1)]: Done 1 out of 1 | elapsed: 0.0s finished
[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.

[CV] ... C=10000.0, total= 0.0s
[CV] C=10000.0 ...
[CV] ... C=10000.0, total= 0.0s
[CV] C=10000.0 ...
[CV] ... C=10000.0, total= 0.0s
[CV] C=10000.0 ...
[CV] ... C=10000.0, total= 0.0s
[CV] C=0 ...

D:\CodeNameSolus\Apps\lib\site-
packages\sklearn\model_selection\_validation.py:536: FitFailedWarning: Estimator
fit failed. The score on this train-test partition for these parameters will be
set to nan. Details:
ZeroDivisionError: float division by zero

FitFailedWarning)
[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.

[CV] ... C=0, total= 0.1s
[CV] C=0 ...

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```

```
packages\sklearn\model_selection\_validation.py:536: FitFailedWarning: Estimator
fit failed. The score on this train-test partition for these parameters will be
set to nan. Details:
```

```
ZeroDivisionError: float division by zero
```

```
FitFailedWarning)
```

```
[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.
```

```
[CV] ... C=0, total= 0.9s
```

```
[CV] C=0 ...
```

```
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```

```
packages\sklearn\model_selection\_validation.py:536: FitFailedWarning: Estimator
fit failed. The score on this train-test partition for these parameters will be
set to nan. Details:
```

```
ZeroDivisionError: float division by zero
```

```
FitFailedWarning)
```

```
[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.
```

```
[CV] ... C=0, total= 0.9s
```

```
[CV] C=0 ...
```

```
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```

```
packages\sklearn\model_selection\_validation.py:536: FitFailedWarning: Estimator
fit failed. The score on this train-test partition for these parameters will be
set to nan. Details:
```

```
ZeroDivisionError: float division by zero
```

```
FitFailedWarning)
```

```
[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.
```

```
[CV] ... C=0, total= 0.9s
```

```
[CV] C=0 ...
```

```
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```

```
packages\sklearn\model_selection\_validation.py:536: FitFailedWarning: Estimator
fit failed. The score on this train-test partition for these parameters will be
set to nan. Details:
```

```
ZeroDivisionError: float division by zero
```

```
FitFailedWarning)
```

```
[Parallel(n_jobs=1)]: Done 50 out of 50 | elapsed: 8.1s finished
```

```
[Parallel(n_jobs=-1)]: Using backend ThreadingBackend with 8 concurrent workers.
```

```
[Parallel(n_jobs=-1)]: Done 1 out of 1 | elapsed: 0.0s finished
```

```
[Parallel(n_jobs=-1)]: Using backend ThreadingBackend with 8 concurrent workers.
```

```
[Parallel(n_jobs=-1)]: Done 1 out of 1 | elapsed: 0.0s finished
```

```
[CV] ... C=0, total= 0.9s
```

```
convergence after 16 epochs took 0 seconds
```

```
convergence after 17 epochs took 0 seconds
```

```
[Parallel(n_jobs=-1)]: Using backend ThreadingBackend with 8 concurrent workers.  
[Parallel(n_jobs=-1)]: Done 1 out of 1 | elapsed: 0.0s finished  
[Parallel(n_jobs=1)]: Using backend SequentialBackend with 1 concurrent workers.  
[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.
```

convergence after 17 epochs took 0 seconds

Trial 4

Fitting 5 folds for each of 10 candidates, totalling 50 fits

```
[CV] C=0.0001 ...
```

```
[Parallel(n_jobs=-1)]: Done 1 out of 1 | elapsed: 0.8s finished  
[Parallel(n_jobs=1)]: Done 1 out of 1 | elapsed: 0.8s remaining: 0.0s  
[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.
```

```
[CV] ... C=0.0001, total= 0.9s
```

```
[CV] C=0.0001 ...
```

```
[Parallel(n_jobs=-1)]: Done 1 out of 1 | elapsed: 0.3s finished  
[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.
```

```
[CV] ... C=0.0001, total= 0.4s
```

```
[CV] C=0.0001 ...
```

```
[Parallel(n_jobs=-1)]: Done 1 out of 1 | elapsed: 0.3s finished  
[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.
```

```
[CV] ... C=0.0001, total= 0.4s
```

```
[CV] C=0.0001 ...
```

```
[Parallel(n_jobs=-1)]: Done 1 out of 1 | elapsed: 0.3s finished  
[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.
```

```
[CV] ... C=0.0001, total= 0.4s
```

```
[CV] C=0.0001 ...
```

```
[Parallel(n_jobs=-1)]: Done 1 out of 1 | elapsed: 0.3s finished  
[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.
```

```
[CV] ... C=0.0001, total= 0.4s
```

```
[CV] C=0.001 ...
```

```
[Parallel(n_jobs=-1)]: Done 1 out of 1 | elapsed: 0.3s finished  
[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.
```

```
[CV] ... C=0.001, total= 0.4s
```

```
[CV] C=0.001 ...
```

```
[Parallel(n_jobs=-1)]: Done 1 out of 1 | elapsed: 0.3s finished  
[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.
```

```
[CV] ... C=0.001, total= 0.4s
```

```
[CV] C=0.001 ...
```

```
[Parallel(n_jobs=-1)]: Done 1 out of 1 | elapsed: 0.3s finished  
[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.
```



```

[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.
[Parallel(n_jobs=-1)]: Done 1 out of 1 | elapsed: 0.0s finished
[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.
[Parallel(n_jobs=-1)]: Done 1 out of 1 | elapsed: 0.0s finished

[CV] ... C=0.1, total= 0.0s
[CV] C=0.1 ...
[CV] ... C=0.1, total= 0.0s
[CV] C=0.1 ...
[CV] ... C=0.1, total= 0.0s
[CV] C=0.1 ...
[CV] ... C=0.1, total= 0.0s
[CV] C=1.0 ...
[CV] ... C=1.0, total= 0.0s
[CV] C=1.0 ...
[CV] ... C=1.0, total= 0.0s
[CV] C=1.0 ...
[CV] ... C=1.0, total= 0.0s
[CV] C=1.0 ...
[CV] ... C=1.0, total= 0.0s
[CV] C=1.0 ...
[CV] ... C=1.0, total= 0.0s
[CV] C=1.0 ...
[CV] ... C=1.0, total= 0.0s
[CV] C=10.0 ...

[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.
[Parallel(n_jobs=-1)]: Done 1 out of 1 | elapsed: 0.0s finished
[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.
[Parallel(n_jobs=-1)]: Done 1 out of 1 | elapsed: 0.0s finished
[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.
[Parallel(n_jobs=-1)]: Done 1 out of 1 | elapsed: 0.0s finished
[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.
[Parallel(n_jobs=-1)]: Done 1 out of 1 | elapsed: 0.0s finished
[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.
[Parallel(n_jobs=-1)]: Done 1 out of 1 | elapsed: 0.0s finished
[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.
[Parallel(n_jobs=-1)]: Done 1 out of 1 | elapsed: 0.0s finished
[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.
[Parallel(n_jobs=-1)]: Done 1 out of 1 | elapsed: 0.0s finished
[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.
[Parallel(n_jobs=-1)]: Done 1 out of 1 | elapsed: 0.0s finished
[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.
[Parallel(n_jobs=-1)]: Done 1 out of 1 | elapsed: 0.0s finished
[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.
[Parallel(n_jobs=-1)]: Done 1 out of 1 | elapsed: 0.0s finished
[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.
[Parallel(n_jobs=-1)]: Done 1 out of 1 | elapsed: 0.0s finished

[CV] ... C=10.0, total= 0.0s
[CV] C=10.0 ...
[CV] ... C=10.0, total= 0.0s
[CV] C=10.0 ...
[CV] ... C=10.0, total= 0.0s
[CV] C=10.0 ...
[CV] ... C=10.0, total= 0.0s
[CV] C=10.0 ...

```

```

[CV] ... C=10.0, total= 0.0s
[CV] C=100.0 ...
[CV] ... C=100.0, total= 0.0s
[CV] C=100.0 ...
[CV] ... C=100.0, total= 0.0s
[CV] C=100.0 ...
[CV] ... C=100.0, total= 0.0s
[CV] C=100.0 ...

[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.
[Parallel(n_jobs=-1)]: Done 1 out of 1 | elapsed: 0.0s finished
[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.
[Parallel(n_jobs=-1)]: Done 1 out of 1 | elapsed: 0.0s finished
[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.
[Parallel(n_jobs=-1)]: Done 1 out of 1 | elapsed: 0.0s finished
[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.
[Parallel(n_jobs=-1)]: Done 1 out of 1 | elapsed: 0.0s finished
[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.
[Parallel(n_jobs=-1)]: Done 1 out of 1 | elapsed: 0.0s finished
[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.
[Parallel(n_jobs=-1)]: Done 1 out of 1 | elapsed: 0.0s finished
[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.
[Parallel(n_jobs=-1)]: Done 1 out of 1 | elapsed: 0.0s finished
[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.
[Parallel(n_jobs=-1)]: Done 1 out of 1 | elapsed: 0.0s finished
[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.
[Parallel(n_jobs=-1)]: Done 1 out of 1 | elapsed: 0.0s finished

[CV] ... C=100.0, total= 0.0s
[CV] C=100.0 ...
[CV] ... C=100.0, total= 0.0s
[CV] C=1000.0 ...
[CV] ... C=1000.0, total= 0.0s
[CV] C=1000.0 ...
[CV] ... C=1000.0, total= 0.0s
[CV] C=1000.0 ...
[CV] ... C=1000.0, total= 0.0s
[CV] C=1000.0 ...
[CV] ... C=1000.0, total= 0.0s
[CV] C=10000.0 ...
[CV] ... C=10000.0, total= 0.0s
[CV] C=10000.0 ...

[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.
[Parallel(n_jobs=-1)]: Done 1 out of 1 | elapsed: 0.0s finished
[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.
[Parallel(n_jobs=-1)]: Done 1 out of 1 | elapsed: 0.0s finished
[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.
[Parallel(n_jobs=-1)]: Done 1 out of 1 | elapsed: 0.0s finished

```

```
[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.  
[Parallel(n_jobs=-1)]: Done 1 out of 1 | elapsed: 0.0s finished  
[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.
```

```
[CV] ... C=10000.0, total= 0.0s  
[CV] C=10000.0 ...  
[CV] ... C=10000.0, total= 0.0s  
[CV] C=10000.0 ...  
[CV] ... C=10000.0, total= 0.0s  
[CV] C=10000.0 ...  
[CV] ... C=10000.0, total= 0.0s  
[CV] C=0 ...
```

```
D:\CodeNameSolus\Apps\lib\site-  
packages\sklearn\model_selection\_validation.py:536: FitFailedWarning: Estimator  
fit failed. The score on this train-test partition for these parameters will be  
set to nan. Details:  
ZeroDivisionError: float division by zero
```

```
FitFailedWarning)  
[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.  
[CV] ... C=0, total= 0.1s  
[CV] C=0 ...
```

```
D:\CodeNameSolus\Apps\lib\site-  
packages\sklearn\model_selection\_validation.py:536: FitFailedWarning: Estimator  
fit failed. The score on this train-test partition for these parameters will be  
set to nan. Details:  
ZeroDivisionError: float division by zero
```

```
FitFailedWarning)  
[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.  
[CV] ... C=0, total= 0.9s  
[CV] C=0 ...
```

```
D:\CodeNameSolus\Apps\lib\site-  
packages\sklearn\model_selection\_validation.py:536: FitFailedWarning: Estimator  
fit failed. The score on this train-test partition for these parameters will be  
set to nan. Details:  
ZeroDivisionError: float division by zero
```

```
FitFailedWarning)  
[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.  
[CV] ... C=0, total= 0.9s  
[CV] C=0 ...
```

```
D:\CodeNameSolus\Apps\lib\site-  
packages\sklearn\model_selection\_validation.py:536: FitFailedWarning: Estimator  
fit failed. The score on this train-test partition for these parameters will be
```

set to nan. Details:

ZeroDivisionError: float division by zero

FitFailedWarning)

[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.

[CV] ... C=0, total= 0.9s

[CV] C=0 ...

D:\CodeNameSolus\Apps\lib\site-

packages\sklearn\model_selection_validation.py:536: FitFailedWarning: Estimator fit failed. The score on this train-test partition for these parameters will be set to nan. Details:

ZeroDivisionError: float division by zero

FitFailedWarning)

[Parallel(n_jobs=1)]: Done 50 out of 50 | elapsed: 8.1s finished

[Parallel(n_jobs=-1)]: Using backend ThreadingBackend with 8 concurrent workers.

[Parallel(n_jobs=-1)]: Done 1 out of 1 | elapsed: 0.0s finished

[Parallel(n_jobs=-1)]: Using backend ThreadingBackend with 8 concurrent workers.

[Parallel(n_jobs=-1)]: Done 1 out of 1 | elapsed: 0.0s finished

[CV] ... C=0, total= 0.9s

convergence after 16 epochs took 0 seconds

convergence after 18 epochs took 0 seconds

[Parallel(n_jobs=-1)]: Using backend ThreadingBackend with 8 concurrent workers.

[Parallel(n_jobs=-1)]: Done 1 out of 1 | elapsed: 0.0s finished

[Parallel(n_jobs=1)]: Using backend SequentialBackend with 1 concurrent workers.

[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.

convergence after 16 epochs took 0 seconds

Trial 5

Fitting 5 folds for each of 10 candidates, totalling 50 fits

[CV] C=0.0001 ...

[Parallel(n_jobs=-1)]: Done 1 out of 1 | elapsed: 0.8s finished

[Parallel(n_jobs=1)]: Done 1 out of 1 | elapsed: 0.8s remaining: 0.0s

[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.

[CV] ... C=0.0001, total= 0.9s

[CV] C=0.0001 ...

[Parallel(n_jobs=-1)]: Done 1 out of 1 | elapsed: 0.3s finished

[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.

[CV] ... C=0.0001, total= 0.4s

[CV] C=0.0001 ...

[Parallel(n_jobs=-1)]: Done 1 out of 1 | elapsed: 0.3s finished

[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.


```

[CV] ... C=0.01, total= 0.0s
[CV] C=0.01 ...
[CV] ... C=0.01, total= 0.0s
[CV] C=0.01 ...
[CV] ... C=0.01, total= 0.0s
[CV] C=0.01 ...
[CV] ... C=0.01, total= 0.0s
[CV] C=0.1 ...
[CV] ... C=0.1, total= 0.0s

[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.
[Parallel(n_jobs=-1)]: Done 1 out of 1 | elapsed: 0.0s finished
[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.
[Parallel(n_jobs=-1)]: Done 1 out of 1 | elapsed: 0.0s finished
[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.
[Parallel(n_jobs=-1)]: Done 1 out of 1 | elapsed: 0.0s finished
[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.
[Parallel(n_jobs=-1)]: Done 1 out of 1 | elapsed: 0.0s finished
[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.
[Parallel(n_jobs=-1)]: Done 1 out of 1 | elapsed: 0.0s finished
[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.
[Parallel(n_jobs=-1)]: Done 1 out of 1 | elapsed: 0.0s finished
[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.
[Parallel(n_jobs=-1)]: Done 1 out of 1 | elapsed: 0.0s finished
[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.
[Parallel(n_jobs=-1)]: Done 1 out of 1 | elapsed: 0.0s finished
[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.
[Parallel(n_jobs=-1)]: Done 1 out of 1 | elapsed: 0.0s finished
[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.
[Parallel(n_jobs=-1)]: Done 1 out of 1 | elapsed: 0.0s finished
[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.
[Parallel(n_jobs=-1)]: Done 1 out of 1 | elapsed: 0.0s finished
[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.
[Parallel(n_jobs=-1)]: Done 1 out of 1 | elapsed: 0.0s finished

[CV] C=0.1 ...
[CV] ... C=0.1, total= 0.0s
[CV] C=0.1 ...
[CV] ... C=0.1, total= 0.0s
[CV] C=0.1 ...
[CV] ... C=0.1, total= 0.0s
[CV] C=0.1 ...
[CV] ... C=0.1, total= 0.0s
[CV] C=1.0 ...
[CV] ... C=1.0, total= 0.0s
[CV] C=1.0 ...
[CV] ... C=1.0, total= 0.0s
[CV] C=1.0 ...
[CV] ... C=1.0, total= 0.0s
[CV] C=1.0 ...
[CV] ... C=1.0, total= 0.0s
[CV] C=1.0 ...
[CV] ... C=1.0, total= 0.0s
[CV] C=10.0 ...

```



```
[Parallel(n_jobs=-1)]: Done 1 out of 1 | elapsed: 0.0s finished
[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.
[Parallel(n_jobs=-1)]: Done 1 out of 1 | elapsed: 0.0s finished
```

```
[CV] ... C=100.0, total= 0.0s
[CV] C=1000.0 ...
[CV] ... C=1000.0, total= 0.0s
[CV] C=1000.0 ...
[CV] ... C=1000.0, total= 0.0s
[CV] C=1000.0 ...
[CV] ... C=1000.0, total= 0.0s
[CV] C=1000.0 ...
[CV] ... C=1000.0, total= 0.0s
[CV] C=1000.0 ...
[CV] ... C=1000.0, total= 0.0s
[CV] C=10000.0 ...
[CV] ... C=10000.0, total= 0.0s
[CV] C=10000.0 ...
[CV] ... C=10000.0, total= 0.0s
[CV] C=10000.0 ...
```

```
[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.
[Parallel(n_jobs=-1)]: Done 1 out of 1 | elapsed: 0.0s finished
[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.
[Parallel(n_jobs=-1)]: Done 1 out of 1 | elapsed: 0.0s finished
[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.
[Parallel(n_jobs=-1)]: Done 1 out of 1 | elapsed: 0.0s finished
[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.
[Parallel(n_jobs=-1)]: Done 1 out of 1 | elapsed: 0.0s finished
[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.
```

```
[CV] ... C=10000.0, total= 0.0s
[CV] C=10000.0 ...
[CV] ... C=10000.0, total= 0.0s
[CV] C=10000.0 ...
[CV] ... C=10000.0, total= 0.0s
[CV] C=0 ...
[CV] ... C=0, total= 0.1s
[CV] C=0 ...
```

```
D:\CodeNameSolus\Apps\lib\site-
packages\sklearn\model_selection\_validation.py:536: FitFailedWarning: Estimator
fit failed. The score on this train-test partition for these parameters will be
set to nan. Details:
ZeroDivisionError: float division by zero
```

```
FitFailedWarning)
[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.
D:\CodeNameSolus\Apps\lib\site-
packages\sklearn\model_selection\_validation.py:536: FitFailedWarning: Estimator
```


fit failed. The score on this train-test partition for these parameters will be set to nan. Details:

ZeroDivisionError: float division by zero

FitFailedWarning)

[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.

[CV] ... C=0, total= 0.9s

[CV] C=0 ...

D:\CodeNameSolus\Apps\lib\site-

packages\sklearn\model_selection_validation.py:536: FitFailedWarning: Estimator fit failed. The score on this train-test partition for these parameters will be set to nan. Details:

ZeroDivisionError: float division by zero

FitFailedWarning)

[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.

[CV] ... C=0, total= 0.9s

[CV] C=0 ...

D:\CodeNameSolus\Apps\lib\site-

packages\sklearn\model_selection_validation.py:536: FitFailedWarning: Estimator fit failed. The score on this train-test partition for these parameters will be set to nan. Details:

ZeroDivisionError: float division by zero

FitFailedWarning)

[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.

[CV] ... C=0, total= 0.9s

[CV] C=0 ...

D:\CodeNameSolus\Apps\lib\site-

packages\sklearn\model_selection_validation.py:536: FitFailedWarning: Estimator fit failed. The score on this train-test partition for these parameters will be set to nan. Details:

ZeroDivisionError: float division by zero

FitFailedWarning)

[Parallel(n_jobs=1)]: Done 50 out of 50 | elapsed: 8.1s finished

[Parallel(n_jobs=-1)]: Using backend ThreadingBackend with 8 concurrent workers.

[Parallel(n_jobs=-1)]: Done 1 out of 1 | elapsed: 0.0s finished

[Parallel(n_jobs=-1)]: Using backend ThreadingBackend with 8 concurrent workers.

[Parallel(n_jobs=-1)]: Done 1 out of 1 | elapsed: 0.0s finished

[CV] ... C=0, total= 0.9s

convergence after 15 epochs took 0 seconds

convergence after 15 epochs took 0 seconds

convergence after 16 epochs took 0 seconds

```
[Parallel(n_jobs=-1)]: Using backend ThreadingBackend with 8 concurrent workers.  
[Parallel(n_jobs=-1)]: Done 1 out of 1 | elapsed: 0.0s finished
```

```
[87]: metrics_letter_P2_LR
```

```
[87]: array([[0.7346      , 0.70596056, 0.73177522, 0.7346      , 0.70539481,  
            0.73142125],  
          [0.7364      , 0.69391547, 0.72990204, 0.7374      , 0.70138731,  
            0.73196528],  
          [0.7378      , 0.70116253, 0.73295381, 0.7338      , 0.70736534,  
            0.73123236],  
          [0.7306      , 0.71370882, 0.72788931, 0.73233333, 0.70691291,  
            0.7316577 ],  
          [0.7282      , 0.70575508, 0.72630311, 0.73513333, 0.7081895 ,  
            0.73334958]])
```

RF: LETTER P2

```
[88]: metrics_letter_P2_RF = np.zeros((5, 6))  
  
for i in range(5):  
    print("\n Trial", i+1)  
    # randomly split the data. size of training data will be 5000  
    X_train, X_test, Y_train, Y_test = train_test_split(X_letter, Y_letter_P2,  
→train_size = 5000)  
  
    # initialize the classifier  
    classifier_RF = RandomForestClassifier(n_estimators = 1024, verbose = 0,  
→n_jobs = -1)  
  
    Feature_list = [1, 2, 4, 6, 8, 12]  
  
    parameters = {'max_features': Feature_list}  
  
    search_clf = GridSearchCV(classifier_RF, parameters, cv =  
→StratifiedKFold(n_splits = 5),  
                           scoring = ['accuracy', 'roc_auc_ovr', 'f1_micro'],  
→refit = False, verbose = 0)  
    match_model = search_clf.fit(X_train, Y_train)  
  
    match_param = match_model.cv_results_['params'][np.argmin(match_model.  
→cv_results_['rank_test_roc_auc_ovr'])]  
    classifier_RF.set_params(**match_param)  
    classifier_RF.fit(X_train, Y_train)  
    Y_pred_train_auc = classifier_RF.predict(X_train)  
    Y_pred_test_auc = classifier_RF.predict(X_test)  
    metrics_letter_P2_RF[i, 2] = roc_auc_score(Y_train, Y_pred_train_auc)
```

```

metrics_letter_P2_RF[i, 5] = roc_auc_score(Y_test, Y_pred_test_auc)

match_param = match_model.cv_results_['params'][np.argmin(match_model.
→cv_results_['rank_test_accuracy'])]
classifier_RF.set_params(**match_param)
classifier_RF.fit(X_train, Y_train)
Y_pred_train_acc = classifier_RF.predict(X_train)
Y_pred_test_acc = classifier_RF.predict(X_test)
metrics_letter_P2_RF[i, 0] = accuracy_score(Y_train, Y_pred_train_acc)
metrics_letter_P2_RF[i, 3] = accuracy_score(Y_test, Y_pred_test_acc)

match_param = match_model.cv_results_['params'][np.argmin(match_model.
→cv_results_['rank_test_f1_micro'])]
classifier_RF.set_params(**match_param)
classifier_RF.fit(X_train, Y_train)
Y_pred_train_f1 = classifier_RF.predict(X_train)
Y_pred_test_f1 = classifier_RF.predict(X_test)
metrics_letter_P2_RF[i, 1] = f1_score(Y_train, Y_pred_train_f1)
metrics_letter_P2_RF[i, 4] = f1_score(Y_test, Y_pred_test_f1)

```

[Parallel(n_jobs=1)]: Using backend SequentialBackend with 1 concurrent workers.

Trial 1

Fitting 5 folds for each of 6 candidates, totalling 30 fits

[CV] max_features=1 ...

[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.

[Parallel(n_jobs=-1)]: Done 25 tasks | elapsed: 1.2s

[Parallel(n_jobs=-1)]: Done 862 tasks | elapsed: 1.9s

[Parallel(n_jobs=-1)]: Done 1009 out of 1024 | elapsed: 2.1s remaining:
0.0s

[Parallel(n_jobs=-1)]: Done 1024 out of 1024 | elapsed: 2.1s finished

[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.

[Parallel(n_jobs=8)]: Done 25 tasks | elapsed: 0.0s

[Parallel(n_jobs=8)]: Done 146 tasks | elapsed: 0.0s

[Parallel(n_jobs=8)]: Done 349 tasks | elapsed: 0.0s

[Parallel(n_jobs=8)]: Done 632 tasks | elapsed: 0.0s

[Parallel(n_jobs=8)]: Done 997 tasks | elapsed: 0.0s

[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed: 0.1s finished

[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.

[Parallel(n_jobs=8)]: Done 25 tasks | elapsed: 0.0s

[Parallel(n_jobs=8)]: Done 146 tasks | elapsed: 0.0s

[Parallel(n_jobs=8)]: Done 349 tasks | elapsed: 0.0s

[Parallel(n_jobs=8)]: Done 632 tasks | elapsed: 0.0s

[Parallel(n_jobs=8)]: Done 997 tasks | elapsed: 0.1s

[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed: 0.1s finished

[Parallel(n_jobs=1)]: Done 1 out of 1 | elapsed: 2.8s remaining: 0.0s

```

[CV] ... max_features=1, total=    2.9s
[CV] max_features=1 ...

[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.
[Parallel(n_jobs=-1)]: Done 34 tasks      | elapsed:    0.0s
[Parallel(n_jobs=-1)]: Done 1024 out of 1024 | elapsed:    0.6s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.0s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks     | elapsed:    0.1s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.1s finished

[CV] ... max_features=1, total=    1.5s
[CV] max_features=1 ...

[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.
[Parallel(n_jobs=-1)]: Done 34 tasks      | elapsed:    0.0s
[Parallel(n_jobs=-1)]: Done 1024 out of 1024 | elapsed:    0.6s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.0s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks     | elapsed:    0.1s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.1s finished

[CV] ... max_features=1, total=    1.5s
[CV] max_features=1 ...

[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.
[Parallel(n_jobs=-1)]: Done 34 tasks      | elapsed:    0.0s
[Parallel(n_jobs=-1)]: Done 1024 out of 1024 | elapsed:    0.7s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks      | elapsed:    0.0s

```

```

[Parallel(n_jobs=8)]: Done 146 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.0s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks       | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.1s finished

[CV] ... max_features=1, total=    1.6s
[CV] max_features=1 ...

[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.
[Parallel(n_jobs=-1)]: Done 34 tasks      | elapsed:    0.0s
[Parallel(n_jobs=-1)]: Done 1024 out of 1024 | elapsed:    0.6s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks       | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.0s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks       | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.0s finished

[CV] ... max_features=1, total=    1.5s
[CV] max_features=2 ...

[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.
[Parallel(n_jobs=-1)]: Done 34 tasks      | elapsed:    0.0s
[Parallel(n_jobs=-1)]: Done 1024 out of 1024 | elapsed:    0.7s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks       | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.0s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks       | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks      | elapsed:    0.0s

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[Parallel(n_jobs=8)]: Done 349 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.0s finished

[CV] ... max_features=2, total=    1.6s
[CV] max_features=2 ...

[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.
[Parallel(n_jobs=-1)]: Done  34 tasks      | elapsed:    0.0s
[Parallel(n_jobs=-1)]: Done 1024 out of 1024 | elapsed:    0.7s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done  25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.1s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done  25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.0s finished

[CV] ... max_features=2, total=    1.5s
[CV] max_features=2 ...

[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.
[Parallel(n_jobs=-1)]: Done  34 tasks      | elapsed:    0.0s
[Parallel(n_jobs=-1)]: Done 1024 out of 1024 | elapsed:    0.7s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done  25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks      | elapsed:    0.1s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.1s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done  25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks      | elapsed:    0.1s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.1s finished

[CV] ... max_features=2, total=    1.5s
[CV] max_features=2 ...

[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.

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[Parallel(n_jobs=-1)]: Done 34 tasks      | elapsed:    0.0s
[Parallel(n_jobs=-1)]: Done 1024 out of 1024 | elapsed:    0.8s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks     | elapsed:    0.1s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.1s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.0s finished

[CV] ... max_features=2, total=    1.6s
[CV] max_features=2 ...

[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.
[Parallel(n_jobs=-1)]: Done 34 tasks      | elapsed:    0.0s
[Parallel(n_jobs=-1)]: Done 1024 out of 1024 | elapsed:    0.7s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks     | elapsed:    0.1s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.1s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks     | elapsed:    0.1s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.1s finished

[CV] ... max_features=2, total=    1.5s
[CV] max_features=4 ...

[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.
[Parallel(n_jobs=-1)]: Done 34 tasks      | elapsed:    0.0s
[Parallel(n_jobs=-1)]: Done 1024 out of 1024 | elapsed:    0.9s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks     | elapsed:    0.1s

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[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.1s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks     | elapsed:    0.1s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.1s finished

[CV] ... max_features=4, total=    1.7s
[CV] max_features=4 ...

[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.
[Parallel(n_jobs=-1)]: Done 34 tasks      | elapsed:    0.0s
[Parallel(n_jobs=-1)]: Done 1024 out of 1024 | elapsed:    0.8s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.0s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.0s finished

[CV] ... max_features=4, total=    1.7s
[CV] max_features=4 ...

[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.
[Parallel(n_jobs=-1)]: Done 34 tasks      | elapsed:    0.0s
[Parallel(n_jobs=-1)]: Done 1024 out of 1024 | elapsed:    0.8s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks     | elapsed:    0.1s
[Parallel(n_jobs=8)]: Done 997 tasks     | elapsed:    0.1s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.1s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.0s finished

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[CV] ... max_features=4, total=    1.6s
[CV] max_features=4 ...

[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.
[Parallel(n_jobs=-1)]: Done   34 tasks      | elapsed:    0.0s
[Parallel(n_jobs=-1)]: Done 1024 out of 1024 | elapsed:    0.8s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done   25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done  146 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done  349 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done  632 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done  997 tasks      | elapsed:    0.1s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.1s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done   25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done  146 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done  349 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done  632 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done  997 tasks      | elapsed:    0.1s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.1s finished

[CV] ... max_features=4, total=    1.6s
[CV] max_features=4 ...

[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.
[Parallel(n_jobs=-1)]: Done   34 tasks      | elapsed:    0.0s
[Parallel(n_jobs=-1)]: Done 1024 out of 1024 | elapsed:    0.9s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done   25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done  146 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done  349 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done  632 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done  997 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.0s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done   25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done  146 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done  349 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done  632 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done  997 tasks      | elapsed:    0.1s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.1s finished

[CV] ... max_features=4, total=    1.7s
[CV] max_features=6 ...

[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.
[Parallel(n_jobs=-1)]: Done   34 tasks      | elapsed:    0.0s
[Parallel(n_jobs=-1)]: Done 1024 out of 1024 | elapsed:    1.0s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done   25 tasks      | elapsed:    0.0s

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[Parallel(n_jobs=8)]: Done 146 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks      | elapsed:    0.1s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.1s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks       | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks      | elapsed:    0.1s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.1s finished

[CV] ... max_features=6, total=    1.9s
[CV] max_features=6 ...

[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.
[Parallel(n_jobs=-1)]: Done 34 tasks      | elapsed:    0.0s
[Parallel(n_jobs=-1)]: Done 1024 out of 1024 | elapsed:    1.1s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks       | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks      | elapsed:    0.1s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.1s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks       | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks      | elapsed:    0.1s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.1s finished

[CV] ... max_features=6, total=    2.0s
[CV] max_features=6 ...

[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.
[Parallel(n_jobs=-1)]: Done 34 tasks      | elapsed:    0.0s
[Parallel(n_jobs=-1)]: Done 1024 out of 1024 | elapsed:    1.1s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks       | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks      | elapsed:    0.1s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.1s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks       | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks      | elapsed:    0.0s

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[Parallel(n_jobs=8)]: Done 349 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks      | elapsed:    0.1s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.1s finished

[CV] ... max_features=6, total=    1.9s
[CV] max_features=6 ...

[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.
[Parallel(n_jobs=-1)]: Done  34 tasks      | elapsed:    0.0s
[Parallel(n_jobs=-1)]: Done 1024 out of 1024 | elapsed:    1.0s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done  25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks      | elapsed:    0.1s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.1s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done  25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.0s finished

[CV] ... max_features=6, total=    1.9s
[CV] max_features=6 ...

[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.
[Parallel(n_jobs=-1)]: Done  34 tasks      | elapsed:    0.0s
[Parallel(n_jobs=-1)]: Done 1024 out of 1024 | elapsed:    1.0s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done  25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.0s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done  25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks      | elapsed:    0.1s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.1s finished

[CV] ... max_features=6, total=    1.8s
[CV] max_features=8 ...

[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.

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[Parallel(n_jobs=-1)]: Done 34 tasks      | elapsed:    0.0s
[Parallel(n_jobs=-1)]: Done 1024 out of 1024 | elapsed:    1.3s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks     | elapsed:    0.1s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.1s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.1s finished

[CV] ... max_features=8, total=    2.1s
[CV] max_features=8 ...

[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.
[Parallel(n_jobs=-1)]: Done 34 tasks      | elapsed:    0.0s
[Parallel(n_jobs=-1)]: Done 1024 out of 1024 | elapsed:    1.5s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks     | elapsed:    0.1s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.1s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks     | elapsed:    0.1s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.1s finished

[CV] ... max_features=8, total=    2.3s
[CV] max_features=8 ...

[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.
[Parallel(n_jobs=-1)]: Done 34 tasks      | elapsed:    0.0s
[Parallel(n_jobs=-1)]: Done 1024 out of 1024 | elapsed:    1.1s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks     | elapsed:    0.1s

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[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.1s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks     | elapsed:    0.1s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.1s finished

[CV] ... max_features=8, total=    1.9s
[CV] max_features=8 ...

[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.
[Parallel(n_jobs=-1)]: Done 34 tasks      | elapsed:    0.0s
[Parallel(n_jobs=-1)]: Done 1024 out of 1024 | elapsed:    1.2s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks     | elapsed:    0.1s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.1s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks     | elapsed:    0.1s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.1s finished

[CV] ... max_features=8, total=    2.1s
[CV] max_features=8 ...

[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.
[Parallel(n_jobs=-1)]: Done 34 tasks      | elapsed:    0.0s
[Parallel(n_jobs=-1)]: Done 1024 out of 1024 | elapsed:    1.1s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.0s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.0s finished

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[CV] ... max_features=8, total=    1.9s
[CV] max_features=12 ...

[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.
[Parallel(n_jobs=-1)]: Done  34 tasks      | elapsed:    0.0s
[Parallel(n_jobs=-1)]: Done 1024 out of 1024 | elapsed:    1.5s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done  25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks      | elapsed:    0.1s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.1s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done  25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.1s finished

[CV] ... max_features=12, total=    2.3s
[CV] max_features=12 ...

[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.
[Parallel(n_jobs=-1)]: Done  34 tasks      | elapsed:    0.0s
[Parallel(n_jobs=-1)]: Done 1024 out of 1024 | elapsed:    1.7s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done  25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.0s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done  25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks      | elapsed:    0.1s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.1s finished

[CV] ... max_features=12, total=    2.6s
[CV] max_features=12 ...

[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.
[Parallel(n_jobs=-1)]: Done  34 tasks      | elapsed:    0.0s
[Parallel(n_jobs=-1)]: Done 1024 out of 1024 | elapsed:    1.5s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done  25 tasks      | elapsed:    0.0s

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[Parallel(n_jobs=8)]: Done 146 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.0s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks       | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.0s finished

[CV] ... max_features=12, total=    2.3s
[CV] max_features=12 ...

[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.
[Parallel(n_jobs=-1)]: Done 34 tasks      | elapsed:    0.0s
[Parallel(n_jobs=-1)]: Done 1024 out of 1024 | elapsed:    1.6s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks       | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks      | elapsed:    0.1s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.1s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks       | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks      | elapsed:    0.1s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.1s finished

[CV] ... max_features=12, total=    2.5s
[CV] max_features=12 ...

[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.
[Parallel(n_jobs=-1)]: Done 34 tasks      | elapsed:    0.0s
[Parallel(n_jobs=-1)]: Done 1024 out of 1024 | elapsed:    1.5s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks       | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks      | elapsed:    0.1s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.1s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks       | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks      | elapsed:    0.0s

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[Parallel(n_jobs=8)]: Done 349 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.0s finished

[CV] ... max_features=12, total=    2.3s

[Parallel(n_jobs=1)]: Done   30 out of   30 | elapsed:   56.5s finished
[Parallel(n_jobs=-1)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=-1)]: Done   25 tasks      | elapsed:    0.0s

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[Parallel(n_jobs=-1)]: Done 146 tasks | elapsed: 0.2s

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[Parallel(n_jobs=-1)]: Done 349 tasks | elapsed: 0.5s

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[Parallel(n_jobs=-1)]: Done 632 tasks | elapsed: 1.0s

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[Parallel(n_jobs=-1)]: Done 997 tasks      | elapsed:    1.7s
[Parallel(n_jobs=-1)]: Done 1024 out of 1024 | elapsed:    1.8s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
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[Parallel(n_jobs=8)]: Done 25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks     | elapsed:    0.1s
[Parallel(n_jobs=8)]: Done 997 tasks     | elapsed:    0.2s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.2s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks     | elapsed:    0.1s
[Parallel(n_jobs=8)]: Done 997 tasks     | elapsed:    0.3s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.3s finished
[Parallel(n_jobs=-1)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=-1)]: Done 25 tasks      | elapsed:    0.0s

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[Parallel(n_jobs=-1)]: Done 146 tasks | elapsed: 0.2s

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[Parallel(n_jobs=-1)]: Done 349 tasks | elapsed: 0.6s
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[Parallel(n_jobs=-1)]: Done 632 tasks | elapsed: 1.1s
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[Parallel(n_jobs=-1)]: Done 997 tasks      | elapsed:    1.7s
[Parallel(n_jobs=-1)]: Done 1024 out of 1024 | elapsed:    1.8s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks     | elapsed:    0.1s
[Parallel(n_jobs=8)]: Done 997 tasks     | elapsed:    0.2s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.2s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks     | elapsed:    0.1s
[Parallel(n_jobs=8)]: Done 632 tasks     | elapsed:    0.2s
[Parallel(n_jobs=8)]: Done 997 tasks     | elapsed:    0.3s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.3s finished
[Parallel(n_jobs=-1)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=-1)]: Done 25 tasks      | elapsed:    0.0s

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[Parallel(n_jobs=-1)]: Done 146 tasks | elapsed: 0.2s
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[Parallel(n_jobs=-1)]: Done 349 tasks | elapsed: 0.5s

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[Parallel(n_jobs=-1)]: Done 632 tasks | elapsed: 1.0s

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building tree 1000 of 1024building tree 1001 of 1024

building tree 1002 of 1024
building tree 1003 of 1024
building tree 1004 of 1024
building tree 1005 of 1024
building tree 1006 of 1024

building tree 1007 of 1024
building tree 1008 of 1024building tree 1009 of 1024building tree 1010 of 1024

building tree 1011 of 1024
building tree 1012 of 1024
building tree 1013 of 1024
building tree 1014 of 1024
building tree 1015 of 1024building tree 1016 of 1024
building tree 1017 of 1024building tree 1018 of 1024building tree 1019 of 1024

building tree 1020 of 1024
building tree 1021 of 1024
building tree 1022 of 1024
building tree 1023 of 1024building tree 1024 of 1024

[Parallel(n_jobs=-1)]: Done 997 tasks | elapsed: 1.6s
[Parallel(n_jobs=-1)]: Done 1024 out of 1024 | elapsed: 1.7s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks | elapsed: 0.0s
[Parallel(n_jobs=8)]: Done 146 tasks | elapsed: 0.0s
[Parallel(n_jobs=8)]: Done 349 tasks | elapsed: 0.0s
[Parallel(n_jobs=8)]: Done 632 tasks | elapsed: 0.1s
[Parallel(n_jobs=8)]: Done 997 tasks | elapsed: 0.2s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed: 0.2s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks | elapsed: 0.0s
[Parallel(n_jobs=8)]: Done 146 tasks | elapsed: 0.0s
[Parallel(n_jobs=8)]: Done 349 tasks | elapsed: 0.0s
[Parallel(n_jobs=8)]: Done 632 tasks | elapsed: 0.1s
[Parallel(n_jobs=8)]: Done 997 tasks | elapsed: 0.3s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed: 0.3s finished

Trial 2

Fitting 5 folds for each of 6 candidates, totalling 30 fits
[CV] max_features=1 ...

[Parallel(n_jobs=1)]: Using backend SequentialBackend with 1 concurrent workers.
[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.
[Parallel(n_jobs=-1)]: Done 34 tasks | elapsed: 0.0s
[Parallel(n_jobs=-1)]: Done 1024 out of 1024 | elapsed: 0.7s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks | elapsed: 0.0s
[Parallel(n_jobs=8)]: Done 146 tasks | elapsed: 0.0s
[Parallel(n_jobs=8)]: Done 349 tasks | elapsed: 0.0s

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[Parallel(n_jobs=8)]: Done 632 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.0s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks       | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.0s finished

[CV] ... max_features=1, total= 1.5s
[CV] max_features=1 ...

[Parallel(n_jobs=1)]: Done 1 out of 1 | elapsed: 1.4s remaining: 0.0s
[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.
[Parallel(n_jobs=-1)]: Done 34 tasks      | elapsed:    0.0s
[Parallel(n_jobs=-1)]: Done 1024 out of 1024 | elapsed:    0.7s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks       | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.0s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks       | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.0s finished

[CV] ... max_features=1, total= 1.5s
[CV] max_features=1 ...

[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.
[Parallel(n_jobs=-1)]: Done 34 tasks      | elapsed:    0.0s
[Parallel(n_jobs=-1)]: Done 1024 out of 1024 | elapsed:    0.7s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks       | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.0s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks       | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks      | elapsed:    0.0s

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[Parallel(n_jobs=8)]: Done 632 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.0s finished

[CV] ... max_features=1, total=    1.5s
[CV] max_features=1 ...

[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.
[Parallel(n_jobs=-1)]: Done  34 tasks      | elapsed:    0.0s
[Parallel(n_jobs=-1)]: Done 1024 out of 1024 | elapsed:    0.7s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done  25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks      | elapsed:    0.1s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.1s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done  25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.0s finished

[CV] ... max_features=1, total=    1.5s
[CV] max_features=1 ...

[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.
[Parallel(n_jobs=-1)]: Done  34 tasks      | elapsed:    0.0s
[Parallel(n_jobs=-1)]: Done 1024 out of 1024 | elapsed:    0.7s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done  25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.1s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done  25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks      | elapsed:    0.1s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.1s finished

[CV] ... max_features=1, total=    1.6s
[CV] max_features=2 ...

[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.
[Parallel(n_jobs=-1)]: Done  34 tasks      | elapsed:    0.0s

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[Parallel(n_jobs=-1)]: Done 1024 out of 1024 | elapsed:    0.7s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.0s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.0s finished

[CV] ... max_features=2, total=    1.5s
[CV] max_features=2 ...

[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.
[Parallel(n_jobs=-1)]: Done 34 tasks      | elapsed:    0.0s
[Parallel(n_jobs=-1)]: Done 1024 out of 1024 | elapsed:    0.7s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.0s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.0s finished

[CV] ... max_features=2, total=    1.5s
[CV] max_features=2 ...

[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.
[Parallel(n_jobs=-1)]: Done 34 tasks      | elapsed:    0.0s
[Parallel(n_jobs=-1)]: Done 1024 out of 1024 | elapsed:    0.7s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks     | elapsed:    0.1s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.1s finished

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[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks     | elapsed:    0.1s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.1s finished

[CV] ... max_features=2, total=    1.5s
[CV] max_features=2 ...

[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.
[Parallel(n_jobs=-1)]: Done 34 tasks     | elapsed:    0.0s
[Parallel(n_jobs=-1)]: Done 1024 out of 1024 | elapsed:    0.7s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.0s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks     | elapsed:    0.1s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.1s finished

[CV] ... max_features=2, total=    1.5s
[CV] max_features=2 ...

[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.
[Parallel(n_jobs=-1)]: Done 34 tasks     | elapsed:    0.0s
[Parallel(n_jobs=-1)]: Done 1024 out of 1024 | elapsed:    0.7s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.1s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.0s finished

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[CV] ... max_features=2, total=    1.5s
[CV] max_features=4 ...

[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.
[Parallel(n_jobs=-1)]: Done   34 tasks      | elapsed:    0.0s
[Parallel(n_jobs=-1)]: Done 1024 out of 1024 | elapsed:    0.9s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done   25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done  146 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done  349 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done  632 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done  997 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.0s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done   25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done  146 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done  349 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done  632 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done  997 tasks      | elapsed:    0.1s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.1s finished

[CV] ... max_features=4, total=    1.7s
[CV] max_features=4 ...

[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.
[Parallel(n_jobs=-1)]: Done   34 tasks      | elapsed:    0.0s
[Parallel(n_jobs=-1)]: Done 1024 out of 1024 | elapsed:    0.9s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done   25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done  146 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done  349 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done  632 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done  997 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.0s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done   25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done  146 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done  349 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done  632 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done  997 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.0s finished

[CV] ... max_features=4, total=    1.7s
[CV] max_features=4 ...

[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.
[Parallel(n_jobs=-1)]: Done   34 tasks      | elapsed:    0.0s
[Parallel(n_jobs=-1)]: Done 1024 out of 1024 | elapsed:    0.8s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done   25 tasks      | elapsed:    0.0s

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[Parallel(n_jobs=8)]: Done 146 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.0s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks       | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks      | elapsed:    0.1s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.1s finished

[CV] ... max_features=4, total=    1.6s
[CV] max_features=4 ...

[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.
[Parallel(n_jobs=-1)]: Done 34 tasks      | elapsed:    0.0s
[Parallel(n_jobs=-1)]: Done 1024 out of 1024 | elapsed:    0.8s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks       | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.0s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks       | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.1s finished

[CV] ... max_features=4, total=    1.6s
[CV] max_features=4 ...

[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.
[Parallel(n_jobs=-1)]: Done 34 tasks      | elapsed:    0.0s
[Parallel(n_jobs=-1)]: Done 1024 out of 1024 | elapsed:    0.8s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks       | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.0s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks       | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks      | elapsed:    0.0s

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[Parallel(n_jobs=8)]: Done 349 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.0s finished

[CV] ... max_features=4, total=    1.7s
[CV] max_features=6 ...

[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.
[Parallel(n_jobs=-1)]: Done  34 tasks      | elapsed:    0.0s
[Parallel(n_jobs=-1)]: Done 1024 out of 1024 | elapsed:    1.1s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done  25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.0s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done  25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks      | elapsed:    0.1s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.1s finished

[CV] ... max_features=6, total=    1.8s
[CV] max_features=6 ...

[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.
[Parallel(n_jobs=-1)]: Done  34 tasks      | elapsed:    0.0s
[Parallel(n_jobs=-1)]: Done 1024 out of 1024 | elapsed:    1.0s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done  25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks      | elapsed:    0.1s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.1s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done  25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.0s finished

[CV] ... max_features=6, total=    1.8s
[CV] max_features=6 ...

[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.

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[Parallel(n_jobs=-1)]: Done 34 tasks      | elapsed:    0.0s
[Parallel(n_jobs=-1)]: Done 1024 out of 1024 | elapsed:    0.9s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.0s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.0s finished

[CV] ... max_features=6, total=    1.7s
[CV] max_features=6 ...

[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.
[Parallel(n_jobs=-1)]: Done 34 tasks      | elapsed:    0.0s
[Parallel(n_jobs=-1)]: Done 1024 out of 1024 | elapsed:    0.9s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.0s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.0s finished

[CV] ... max_features=6, total=    1.8s
[CV] max_features=6 ...

[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.
[Parallel(n_jobs=-1)]: Done 34 tasks      | elapsed:    0.0s
[Parallel(n_jobs=-1)]: Done 1024 out of 1024 | elapsed:    0.9s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks     | elapsed:    0.0s

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[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.0s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.0s finished

[CV] ... max_features=6, total=    1.7s
[CV] max_features=8 ...

[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.
[Parallel(n_jobs=-1)]: Done 34 tasks      | elapsed:    0.0s
[Parallel(n_jobs=-1)]: Done 1024 out of 1024 | elapsed:    1.1s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.1s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.0s finished

[CV] ... max_features=8, total=    1.9s
[CV] max_features=8 ...

[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.
[Parallel(n_jobs=-1)]: Done 34 tasks      | elapsed:    0.0s
[Parallel(n_jobs=-1)]: Done 1024 out of 1024 | elapsed:    1.1s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.0s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.0s finished

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[CV] ... max_features=8, total=    1.9s
[CV] max_features=8 ...

[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.
[Parallel(n_jobs=-1)]: Done   34 tasks      | elapsed:    0.0s
[Parallel(n_jobs=-1)]: Done 1024 out of 1024 | elapsed:    1.1s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done   25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done  146 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done  349 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done  632 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done  997 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.0s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done   25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done  146 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done  349 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done  632 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done  997 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.0s finished

[CV] ... max_features=8, total=    1.9s
[CV] max_features=8 ...

[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.
[Parallel(n_jobs=-1)]: Done   34 tasks      | elapsed:    0.0s
[Parallel(n_jobs=-1)]: Done 1024 out of 1024 | elapsed:    1.1s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done   25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done  146 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done  349 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done  632 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done  997 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.0s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done   25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done  146 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done  349 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done  632 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done  997 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.0s finished

[CV] ... max_features=8, total=    1.9s
[CV] max_features=8 ...

[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.
[Parallel(n_jobs=-1)]: Done   34 tasks      | elapsed:    0.0s
[Parallel(n_jobs=-1)]: Done 1024 out of 1024 | elapsed:    1.1s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done   25 tasks      | elapsed:    0.0s

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[Parallel(n_jobs=8)]: Done 146 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.0s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks       | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.0s finished

[CV] ... max_features=8, total=    1.9s
[CV] max_features=12 ...

[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.
[Parallel(n_jobs=-1)]: Done 34 tasks      | elapsed:    0.0s
[Parallel(n_jobs=-1)]: Done 1024 out of 1024 | elapsed:    1.4s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks       | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.0s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks       | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.0s finished

[CV] ... max_features=12, total=    2.2s
[CV] max_features=12 ...

[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.
[Parallel(n_jobs=-1)]: Done 34 tasks      | elapsed:    0.0s
[Parallel(n_jobs=-1)]: Done 1024 out of 1024 | elapsed:    1.4s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks       | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.0s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks       | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks      | elapsed:    0.0s

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[Parallel(n_jobs=8)]: Done 349 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.0s finished

[CV] ... max_features=12, total=    2.2s
[CV] max_features=12 ...

[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.
[Parallel(n_jobs=-1)]: Done  34 tasks      | elapsed:    0.0s
[Parallel(n_jobs=-1)]: Done 1024 out of 1024 | elapsed:    1.4s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done  25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.0s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done  25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.0s finished

[CV] ... max_features=12, total=    2.3s
[CV] max_features=12 ...

[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.
[Parallel(n_jobs=-1)]: Done  34 tasks      | elapsed:    0.0s
[Parallel(n_jobs=-1)]: Done 1024 out of 1024 | elapsed:    1.4s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done  25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.0s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done  25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.0s finished

[CV] ... max_features=12, total=    2.2s
[CV] max_features=12 ...

[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.

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[Parallel(n_jobs=-1)]: Done 34 tasks      | elapsed:    0.0s
[Parallel(n_jobs=-1)]: Done 1024 out of 1024 | elapsed:    1.4s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.0s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.0s finished

[CV] ... max_features=12, total=    2.3s

[Parallel(n_jobs=1)]: Done 30 out of 30 | elapsed:   52.9s finished
[Parallel(n_jobs=-1)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=-1)]: Done 25 tasks      | elapsed:    0.0s

building tree 1 of 1024
building tree 2 of 1024
building tree 3 of 1024
building tree 4 of 1024
building tree 5 of 1024
building tree 6 of 1024
building tree 7 of 1024building tree 8 of 1024

building tree 9 of 1024
building tree 10 of 1024
building tree 11 of 1024
building tree 12 of 1024
building tree 13 of 1024
building tree 14 of 1024
building tree 15 of 1024
building tree 16 of 1024
building tree 17 of 1024
building tree 18 of 1024building tree 19 of 1024

building tree 20 of 1024
building tree 21 of 1024building tree 22 of 1024
building tree 23 of 1024building tree 24 of 1024

building tree 25 of 1024building tree 26 of 1024
building tree 27 of 1024

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building tree 28 of 1024
building tree 29 of 1024
building tree 30 of 1024
building tree 31 of 1024

building tree 32 of 1024
building tree 33 of 1024
building tree 34 of 1024
building tree 35 of 1024
building tree 36 of 1024
building tree 37 of 1024
building tree 38 of 1024building tree 39 of 1024building tree 40 of 1024

building tree 41 of 1024
building tree 42 of 1024building tree 43 of 1024building tree 44 of 1024

building tree 45 of 1024
building tree 46 of 1024building tree 47 of 1024

building tree 48 of 1024

building tree 49 of 1024
building tree 50 of 1024
building tree 51 of 1024
building tree 52 of 1024building tree 53 of 1024building tree 54 of 1024
building tree 55 of 1024

building tree 56 of 1024
building tree 57 of 1024
building tree 58 of 1024
building tree 59 of 1024
building tree 60 of 1024
building tree 61 of 1024
building tree 62 of 1024
building tree 63 of 1024
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[Parallel(n_jobs=-1)]: Done 146 tasks      | elapsed:    0.2s
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[Parallel(n_jobs=-1)]: Done 349 tasks | elapsed: 0.5s

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[Parallel(n_jobs=-1)]: Done 632 tasks | elapsed: 1.0s
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[Parallel(n_jobs=-1)]: Done 997 tasks | elapsed: 1.7s
[Parallel(n_jobs=-1)]: Done 1024 out of 1024 | elapsed: 1.8s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks | elapsed: 0.0s
[Parallel(n_jobs=8)]: Done 146 tasks | elapsed: 0.0s
[Parallel(n_jobs=8)]: Done 349 tasks | elapsed: 0.0s
[Parallel(n_jobs=8)]: Done 632 tasks | elapsed: 0.1s
[Parallel(n_jobs=8)]: Done 997 tasks | elapsed: 0.2s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed: 0.2s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks | elapsed: 0.0s
[Parallel(n_jobs=8)]: Done 146 tasks | elapsed: 0.0s
[Parallel(n_jobs=8)]: Done 349 tasks | elapsed: 0.0s
[Parallel(n_jobs=8)]: Done 632 tasks | elapsed: 0.1s
[Parallel(n_jobs=8)]: Done 997 tasks | elapsed: 0.3s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed: 0.3s finished
[Parallel(n_jobs=-1)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=-1)]: Done 25 tasks | elapsed: 0.0s

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[Parallel(n_jobs=-1)]: Done 146 tasks | elapsed: 0.2s

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[Parallel(n_jobs=-1)]: Done 349 tasks | elapsed: 0.6s

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[Parallel(n_jobs=-1)]: Done 632 tasks | elapsed: 1.1s
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[Parallel(n_jobs=-1)]: Done 997 tasks      | elapsed:    1.9s
[Parallel(n_jobs=-1)]: Done 1024 out of 1024 | elapsed:    1.9s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks     | elapsed:    0.1s
[Parallel(n_jobs=8)]: Done 997 tasks     | elapsed:    0.2s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.2s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks     | elapsed:    0.1s
[Parallel(n_jobs=8)]: Done 997 tasks     | elapsed:    0.3s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.3s finished
[Parallel(n_jobs=-1)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=-1)]: Done 25 tasks      | elapsed:    0.0s

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[Parallel(n_jobs=-1)]: Done 146 tasks | elapsed: 0.2s

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[Parallel(n_jobs=-1)]: Done 349 tasks | elapsed: 0.6s

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[Parallel(n_jobs=-1)]: Done 632 tasks | elapsed: 1.1s
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```

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[Parallel(n_jobs=-1)]: Done 997 tasks      | elapsed:    1.8s
[Parallel(n_jobs=-1)]: Done 1024 out of 1024 | elapsed:    1.9s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks     | elapsed:    0.1s
[Parallel(n_jobs=8)]: Done 997 tasks     | elapsed:    0.2s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.2s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks     | elapsed:    0.1s
[Parallel(n_jobs=8)]: Done 997 tasks     | elapsed:    0.3s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.3s finished

```

Trial 3

Fitting 5 folds for each of 6 candidates, totalling 30 fits

```
[CV] max_features=1 ...
```

```

[Parallel(n_jobs=1)]: Using backend SequentialBackend with 1 concurrent workers.
[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.
[Parallel(n_jobs=-1)]: Done 34 tasks      | elapsed:    0.0s
[Parallel(n_jobs=-1)]: Done 1024 out of 1024 | elapsed:    0.6s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.0s finished

```

```

[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.0s finished

[CV] ... max_features=1, total=    1.4s
[CV] max_features=1 ...

[Parallel(n_jobs=1)]: Done 1 out of 1 | elapsed:    1.3s remaining:    0.0s
[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.
[Parallel(n_jobs=-1)]: Done 34 tasks     | elapsed:    0.0s
[Parallel(n_jobs=-1)]: Done 1024 out of 1024 | elapsed:    0.6s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.0s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.0s finished

[CV] ... max_features=1, total=    1.4s
[CV] max_features=1 ...

[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.
[Parallel(n_jobs=-1)]: Done 34 tasks     | elapsed:    0.0s
[Parallel(n_jobs=-1)]: Done 1024 out of 1024 | elapsed:    0.6s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.0s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.0s finished

```

```

[CV] ... max_features=1, total=    1.5s
[CV] max_features=1 ...

[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.
[Parallel(n_jobs=-1)]: Done   34 tasks      | elapsed:    0.0s
[Parallel(n_jobs=-1)]: Done 1024 out of 1024 | elapsed:    0.6s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done   25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done  146 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done  349 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done  632 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done  997 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.0s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done   25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done  146 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done  349 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done  632 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done  997 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.0s finished

[CV] ... max_features=1, total=    1.5s
[CV] max_features=1 ...

[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.
[Parallel(n_jobs=-1)]: Done   34 tasks      | elapsed:    0.0s
[Parallel(n_jobs=-1)]: Done 1024 out of 1024 | elapsed:    0.6s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done   25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done  146 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done  349 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done  632 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done  997 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.0s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done   25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done  146 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done  349 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done  632 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done  997 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.0s finished

[CV] ... max_features=1, total=    1.4s
[CV] max_features=2 ...

[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.
[Parallel(n_jobs=-1)]: Done   34 tasks      | elapsed:    0.0s
[Parallel(n_jobs=-1)]: Done 1024 out of 1024 | elapsed:    0.7s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done   25 tasks      | elapsed:    0.0s

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[Parallel(n_jobs=8)]: Done 146 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.0s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks       | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.0s finished

[CV] ... max_features=2, total=    1.5s
[CV] max_features=2 ...

[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.
[Parallel(n_jobs=-1)]: Done 34 tasks      | elapsed:    0.0s
[Parallel(n_jobs=-1)]: Done 1024 out of 1024 | elapsed:    0.7s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks       | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.0s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks       | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.0s finished

[CV] ... max_features=2, total=    1.4s
[CV] max_features=2 ...

[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.
[Parallel(n_jobs=-1)]: Done 34 tasks      | elapsed:    0.0s
[Parallel(n_jobs=-1)]: Done 1024 out of 1024 | elapsed:    0.6s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks       | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.0s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks       | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks      | elapsed:    0.0s

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[Parallel(n_jobs=8)]: Done 349 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.0s finished

[CV] ... max_features=2, total=    1.5s
[CV] max_features=2 ...

[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.
[Parallel(n_jobs=-1)]: Done  34 tasks      | elapsed:    0.0s
[Parallel(n_jobs=-1)]: Done 1024 out of 1024 | elapsed:    0.7s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done  25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.0s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done  25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.0s finished

[CV] ... max_features=2, total=    1.5s
[CV] max_features=2 ...

[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.
[Parallel(n_jobs=-1)]: Done  34 tasks      | elapsed:    0.0s
[Parallel(n_jobs=-1)]: Done 1024 out of 1024 | elapsed:    0.7s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done  25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.1s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done  25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.0s finished

[CV] ... max_features=2, total=    1.5s
[CV] max_features=4 ...

[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.

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[Parallel(n_jobs=-1)]: Done 34 tasks      | elapsed:    0.0s
[Parallel(n_jobs=-1)]: Done 1024 out of 1024 | elapsed:    0.8s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.0s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.0s finished

[CV] ... max_features=4, total=    1.6s
[CV] max_features=4 ...

[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.
[Parallel(n_jobs=-1)]: Done 34 tasks      | elapsed:    0.0s
[Parallel(n_jobs=-1)]: Done 1024 out of 1024 | elapsed:    0.8s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.0s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.0s finished

[CV] ... max_features=4, total=    1.6s
[CV] max_features=4 ...

[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.
[Parallel(n_jobs=-1)]: Done 34 tasks      | elapsed:    0.0s
[Parallel(n_jobs=-1)]: Done 1024 out of 1024 | elapsed:    0.8s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks     | elapsed:    0.0s

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[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.0s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.0s finished

[CV] ... max_features=4, total=    1.6s
[CV] max_features=4 ...

[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.
[Parallel(n_jobs=-1)]: Done 34 tasks      | elapsed:    0.0s
[Parallel(n_jobs=-1)]: Done 1024 out of 1024 | elapsed:    0.8s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.0s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.0s finished

[CV] ... max_features=4, total=    1.6s
[CV] max_features=4 ...

[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.
[Parallel(n_jobs=-1)]: Done 34 tasks      | elapsed:    0.0s
[Parallel(n_jobs=-1)]: Done 1024 out of 1024 | elapsed:    0.8s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks     | elapsed:    0.1s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.1s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.0s finished

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[CV] ... max_features=4, total=    1.6s
[CV] max_features=6 ...

[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.
[Parallel(n_jobs=-1)]: Done  34 tasks      | elapsed:    0.0s
[Parallel(n_jobs=-1)]: Done 1024 out of 1024 | elapsed:    0.9s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done  25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.0s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done  25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.0s finished

[CV] ... max_features=6, total=    1.7s
[CV] max_features=6 ...

[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.
[Parallel(n_jobs=-1)]: Done  34 tasks      | elapsed:    0.0s
[Parallel(n_jobs=-1)]: Done 1024 out of 1024 | elapsed:    0.9s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done  25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.0s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done  25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.0s finished

[CV] ... max_features=6, total=    1.7s
[CV] max_features=6 ...

[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.
[Parallel(n_jobs=-1)]: Done  34 tasks      | elapsed:    0.0s
[Parallel(n_jobs=-1)]: Done 1024 out of 1024 | elapsed:    0.9s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done  25 tasks      | elapsed:    0.0s

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[Parallel(n_jobs=8)]: Done 146 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.0s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks       | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.0s finished

[CV] ... max_features=6, total=    1.8s
[CV] max_features=6 ...

[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.
[Parallel(n_jobs=-1)]: Done 34 tasks      | elapsed:    0.0s
[Parallel(n_jobs=-1)]: Done 1024 out of 1024 | elapsed:    1.1s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks       | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks      | elapsed:    0.1s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.1s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks       | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks      | elapsed:    0.1s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.1s finished

[CV] ... max_features=6, total=    1.9s
[CV] max_features=6 ...

[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.
[Parallel(n_jobs=-1)]: Done 34 tasks      | elapsed:    0.0s
[Parallel(n_jobs=-1)]: Done 1024 out of 1024 | elapsed:    1.2s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks       | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks      | elapsed:    0.1s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.1s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks       | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks      | elapsed:    0.0s

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[Parallel(n_jobs=8)]: Done 349 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks      | elapsed:    0.1s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.1s finished

[CV] ... max_features=6, total=    2.0s
[CV] max_features=8 ...

[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.
[Parallel(n_jobs=-1)]: Done  34 tasks      | elapsed:    0.0s
[Parallel(n_jobs=-1)]: Done 1024 out of 1024 | elapsed:    1.2s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done  25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks      | elapsed:    0.1s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.1s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done  25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks      | elapsed:    0.1s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.1s finished

[CV] ... max_features=8, total=    2.1s
[CV] max_features=8 ...

[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.
[Parallel(n_jobs=-1)]: Done  34 tasks      | elapsed:    0.0s
[Parallel(n_jobs=-1)]: Done 1024 out of 1024 | elapsed:    1.1s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done  25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.0s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done  25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.0s finished

[CV] ... max_features=8, total=    2.0s
[CV] max_features=8 ...

[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.

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[Parallel(n_jobs=-1)]: Done 34 tasks      | elapsed:    0.0s
[Parallel(n_jobs=-1)]: Done 1024 out of 1024 | elapsed:    1.1s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.0s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.0s finished

[CV] ... max_features=8, total=    1.9s
[CV] max_features=8 ...

[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.
[Parallel(n_jobs=-1)]: Done 34 tasks      | elapsed:    0.0s
[Parallel(n_jobs=-1)]: Done 1024 out of 1024 | elapsed:    1.1s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.0s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.0s finished

[CV] ... max_features=8, total=    1.9s
[CV] max_features=8 ...

[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.
[Parallel(n_jobs=-1)]: Done 34 tasks      | elapsed:    0.0s
[Parallel(n_jobs=-1)]: Done 1024 out of 1024 | elapsed:    1.0s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks     | elapsed:    0.0s

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[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.0s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.0s finished

[CV] ... max_features=8, total=    1.8s
[CV] max_features=12 ...

[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.
[Parallel(n_jobs=-1)]: Done 34 tasks      | elapsed:    0.0s
[Parallel(n_jobs=-1)]: Done 1024 out of 1024 | elapsed:    1.4s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.0s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.0s finished

[CV] ... max_features=12, total=    2.2s
[CV] max_features=12 ...

[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.
[Parallel(n_jobs=-1)]: Done 34 tasks      | elapsed:    0.0s
[Parallel(n_jobs=-1)]: Done 1024 out of 1024 | elapsed:    1.3s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.0s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.0s finished

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[CV] ... max_features=12, total= 2.2s
[CV] max_features=12 ...

[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.
[Parallel(n_jobs=-1)]: Done 34 tasks | elapsed: 0.0s
[Parallel(n_jobs=-1)]: Done 1024 out of 1024 | elapsed: 1.4s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks | elapsed: 0.0s
[Parallel(n_jobs=8)]: Done 146 tasks | elapsed: 0.0s
[Parallel(n_jobs=8)]: Done 349 tasks | elapsed: 0.0s
[Parallel(n_jobs=8)]: Done 632 tasks | elapsed: 0.0s
[Parallel(n_jobs=8)]: Done 997 tasks | elapsed: 0.0s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed: 0.0s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks | elapsed: 0.0s
[Parallel(n_jobs=8)]: Done 146 tasks | elapsed: 0.0s
[Parallel(n_jobs=8)]: Done 349 tasks | elapsed: 0.0s
[Parallel(n_jobs=8)]: Done 632 tasks | elapsed: 0.0s
[Parallel(n_jobs=8)]: Done 997 tasks | elapsed: 0.0s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed: 0.0s finished

[CV] ... max_features=12, total= 2.2s
[CV] max_features=12 ...

[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.
[Parallel(n_jobs=-1)]: Done 34 tasks | elapsed: 0.0s
[Parallel(n_jobs=-1)]: Done 1024 out of 1024 | elapsed: 1.4s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks | elapsed: 0.0s
[Parallel(n_jobs=8)]: Done 146 tasks | elapsed: 0.0s
[Parallel(n_jobs=8)]: Done 349 tasks | elapsed: 0.0s
[Parallel(n_jobs=8)]: Done 632 tasks | elapsed: 0.0s
[Parallel(n_jobs=8)]: Done 997 tasks | elapsed: 0.0s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed: 0.0s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks | elapsed: 0.0s
[Parallel(n_jobs=8)]: Done 146 tasks | elapsed: 0.0s
[Parallel(n_jobs=8)]: Done 349 tasks | elapsed: 0.0s
[Parallel(n_jobs=8)]: Done 632 tasks | elapsed: 0.0s
[Parallel(n_jobs=8)]: Done 997 tasks | elapsed: 0.0s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed: 0.0s finished

[CV] ... max_features=12, total= 2.2s
[CV] max_features=12 ...

[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.
[Parallel(n_jobs=-1)]: Done 34 tasks | elapsed: 0.0s
[Parallel(n_jobs=-1)]: Done 1024 out of 1024 | elapsed: 1.4s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks | elapsed: 0.0s

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[Parallel(n_jobs=8)]: Done 146 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.0s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks       | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.0s finished

[CV] ... max_features=12, total= 2.2s

[Parallel(n_jobs=1)]: Done 30 out of 30 | elapsed: 52.3s finished
[Parallel(n_jobs=-1)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=-1)]: Done 25 tasks      | elapsed:    0.0s

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[Parallel(n_jobs=-1)]: Done 146 tasks | elapsed: 0.2s

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[Parallel(n_jobs=-1)]: Done 349 tasks | elapsed: 0.5s

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[Parallel(n_jobs=-1)]: Done 632 tasks | elapsed: 1.0s
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[Parallel(n_jobs=-1)]: Done 997 tasks      | elapsed:    1.7s
[Parallel(n_jobs=-1)]: Done 1024 out of 1024 | elapsed:    1.7s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks     | elapsed:    0.1s
[Parallel(n_jobs=8)]: Done 997 tasks     | elapsed:    0.2s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.2s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks     | elapsed:    0.1s
[Parallel(n_jobs=8)]: Done 997 tasks     | elapsed:    0.3s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.3s finished
[Parallel(n_jobs=-1)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=-1)]: Done 25 tasks      | elapsed:    0.0s

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[Parallel(n_jobs=-1)]: Done 146 tasks | elapsed: 0.2s

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[Parallel(n_jobs=-1)]: Done 349 tasks | elapsed: 0.6s
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[Parallel(n_jobs=-1)]: Done 632 tasks | elapsed: 1.1s

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[Parallel(n_jobs=-1)]: Done 997 tasks | elapsed: 1.8s
[Parallel(n_jobs=-1)]: Done 1024 out of 1024 | elapsed: 1.9s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks | elapsed: 0.0s
[Parallel(n_jobs=8)]: Done 146 tasks | elapsed: 0.0s
[Parallel(n_jobs=8)]: Done 349 tasks | elapsed: 0.0s
[Parallel(n_jobs=8)]: Done 632 tasks | elapsed: 0.1s
[Parallel(n_jobs=8)]: Done 997 tasks | elapsed: 0.2s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed: 0.2s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks | elapsed: 0.0s
[Parallel(n_jobs=8)]: Done 146 tasks | elapsed: 0.0s
[Parallel(n_jobs=8)]: Done 349 tasks | elapsed: 0.0s
[Parallel(n_jobs=8)]: Done 632 tasks | elapsed: 0.1s
[Parallel(n_jobs=8)]: Done 997 tasks | elapsed: 0.3s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed: 0.3s finished
[Parallel(n_jobs=-1)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=-1)]: Done 25 tasks | elapsed: 0.0s

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[Parallel(n_jobs=-1)]: Done 146 tasks | elapsed: 0.2s

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[Parallel(n_jobs=-1)]: Done 349 tasks | elapsed: 0.6s

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[Parallel(n_jobs=-1)]: Done 632 tasks | elapsed: 1.1s

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building tree 916 of 1024
building tree 917 of 1024
building tree 918 of 1024
building tree 919 of 1024
building tree 920 of 1024
building tree 921 of 1024building tree 922 of 1024
building tree 923 of 1024

building tree 924 of 1024building tree 925 of 1024

building tree 926 of 1024building tree 927 of 1024building tree 928 of
1024building tree 929 of 1024

building tree 930 of 1024

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building tree 940 of 1024
building tree 941 of 1024
building tree 942 of 1024building tree 943 of 1024building tree 944 of
1024building tree 945 of 1024

building tree 946 of 1024building tree 947 of 1024

building tree 948 of 1024building tree 949 of 1024

building tree 950 of 1024building tree 951 of 1024building tree 952 of 1024
building tree 953 of 1024
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building tree 961 of 1024

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building tree 967 of 1024

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building tree 972 of 1024
building tree 973 of 1024
building tree 974 of 1024building tree 975 of 1024

building tree 976 of 1024
building tree 977 of 1024building tree 978 of 1024

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building tree 980 of 1024
building tree 981 of 1024building tree 982 of 1024
building tree 983 of 1024building tree 984 of 1024
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building tree 987 of 1024

building tree 988 of 1024
building tree 989 of 1024building tree 990 of 1024
building tree 991 of 1024

building tree 992 of 1024building tree 993 of 1024

building tree 994 of 1024
building tree 995 of 1024
building tree 996 of 1024building tree 997 of 1024

building tree 998 of 1024building tree 999 of 1024
building tree 1000 of 1024
building tree 1001 of 1024

building tree 1002 of 1024
building tree 1003 of 1024
building tree 1004 of 1024
building tree 1005 of 1024
building tree 1006 of 1024
building tree 1007 of 1024
building tree 1008 of 1024

```

building tree 1009 of 1024
building tree 1010 of 1024building tree 1011 of 1024

building tree 1012 of 1024
building tree 1013 of 1024building tree 1014 of 1024building tree 1015 of 1024
building tree 1016 of 1024


building tree 1017 of 1024
building tree 1018 of 1024
building tree 1019 of 1024
building tree 1020 of 1024
building tree 1021 of 1024
building tree 1022 of 1024building tree 1023 of 1024

building tree 1024 of 1024

```

```

[Parallel(n_jobs=-1)]: Done 997 tasks      | elapsed:    1.8s
[Parallel(n_jobs=-1)]: Done 1024 out of 1024 | elapsed:    1.8s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks     | elapsed:    0.1s
[Parallel(n_jobs=8)]: Done 997 tasks     | elapsed:    0.2s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.2s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks     | elapsed:    0.1s
[Parallel(n_jobs=8)]: Done 997 tasks     | elapsed:    0.3s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.3s finished

```

Trial 4

Fitting 5 folds for each of 6 candidates, totalling 30 fits

```
[CV] max_features=1 ...
```

```

[Parallel(n_jobs=1)]: Using backend SequentialBackend with 1 concurrent workers.
[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.
[Parallel(n_jobs=-1)]: Done 34 tasks      | elapsed:    0.0s
[Parallel(n_jobs=-1)]: Done 1024 out of 1024 | elapsed:    0.6s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks     | elapsed:    0.0s

```



```

[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.0s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.0s finished

[CV] ... max_features=1, total=    1.5s
[CV] max_features=1 ...

[Parallel(n_jobs=1)]: Done 1 out of 1 | elapsed:    1.4s remaining:    0.0s
[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.
[Parallel(n_jobs=-1)]: Done 34 tasks     | elapsed:    0.0s
[Parallel(n_jobs=-1)]: Done 1024 out of 1024 | elapsed:    0.6s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.0s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.0s finished

[CV] ... max_features=1, total=    1.4s
[CV] max_features=1 ...

[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.
[Parallel(n_jobs=-1)]: Done 34 tasks     | elapsed:    0.0s
[Parallel(n_jobs=-1)]: Done 1024 out of 1024 | elapsed:    0.6s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.0s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks     | elapsed:    0.0s

```

```

[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.0s finished

[CV] ... max_features=1, total=    1.4s
[CV] max_features=1 ...

[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.
[Parallel(n_jobs=-1)]: Done   34 tasks      | elapsed:    0.0s
[Parallel(n_jobs=-1)]: Done 1024 out of 1024 | elapsed:    0.6s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done   25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done  146 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done  349 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done  632 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done  997 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.0s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done   25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done  146 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done  349 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done  632 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done  997 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.0s finished

[CV] ... max_features=1, total=    1.4s
[CV] max_features=1 ...

[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.
[Parallel(n_jobs=-1)]: Done   34 tasks      | elapsed:    0.0s
[Parallel(n_jobs=-1)]: Done 1024 out of 1024 | elapsed:    0.6s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done   25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done  146 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done  349 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done  632 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done  997 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.0s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done   25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done  146 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done  349 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done  632 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done  997 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.0s finished

[CV] ... max_features=1, total=    1.4s
[CV] max_features=2 ...

[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.
[Parallel(n_jobs=-1)]: Done   34 tasks      | elapsed:    0.0s
[Parallel(n_jobs=-1)]: Done 1024 out of 1024 | elapsed:    0.7s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.

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[Parallel(n_jobs=8)]: Done 25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.0s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.0s finished

[CV] ... max_features=2, total=    1.5s
[CV] max_features=2 ...

[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.
[Parallel(n_jobs=-1)]: Done 34 tasks      | elapsed:    0.0s
[Parallel(n_jobs=-1)]: Done 1024 out of 1024 | elapsed:    0.6s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.0s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.0s finished

[CV] ... max_features=2, total=    1.5s
[CV] max_features=2 ...

[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.
[Parallel(n_jobs=-1)]: Done 34 tasks      | elapsed:    0.0s
[Parallel(n_jobs=-1)]: Done 1024 out of 1024 | elapsed:    0.6s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.0s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks      | elapsed:    0.0s

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```

[Parallel(n_jobs=8)]: Done 146 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.1s finished

[CV] ... max_features=2, total=    1.4s
[CV] max_features=2 ...

[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.
[Parallel(n_jobs=-1)]: Done 34 tasks      | elapsed:    0.0s
[Parallel(n_jobs=-1)]: Done 1024 out of 1024 | elapsed:    0.6s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.0s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.1s finished

[CV] ... max_features=2, total=    1.5s
[CV] max_features=2 ...

[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.
[Parallel(n_jobs=-1)]: Done 34 tasks      | elapsed:    0.0s
[Parallel(n_jobs=-1)]: Done 1024 out of 1024 | elapsed:    0.6s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.0s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.0s finished

[CV] ... max_features=2, total=    1.4s
[CV] max_features=4 ...

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```

[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.
[Parallel(n_jobs=-1)]: Done 34 tasks      | elapsed:    0.0s
[Parallel(n_jobs=-1)]: Done 1024 out of 1024 | elapsed:    0.8s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.0s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.0s finished

[CV] ... max_features=4, total=    1.6s
[CV] max_features=4 ...

[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.
[Parallel(n_jobs=-1)]: Done 34 tasks      | elapsed:    0.0s
[Parallel(n_jobs=-1)]: Done 1024 out of 1024 | elapsed:    0.8s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.0s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.0s finished

[CV] ... max_features=4, total=    1.7s
[CV] max_features=4 ...

[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.
[Parallel(n_jobs=-1)]: Done 34 tasks      | elapsed:    0.0s
[Parallel(n_jobs=-1)]: Done 1024 out of 1024 | elapsed:    0.8s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks     | elapsed:    0.0s

```

```

[Parallel(n_jobs=8)]: Done 997 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.0s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.0s finished

[CV] ... max_features=4, total=    1.7s
[CV] max_features=4 ...

[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.
[Parallel(n_jobs=-1)]: Done 34 tasks      | elapsed:    0.0s
[Parallel(n_jobs=-1)]: Done 1024 out of 1024 | elapsed:    0.8s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.0s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.0s finished

[CV] ... max_features=4, total=    1.6s
[CV] max_features=4 ...

[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.
[Parallel(n_jobs=-1)]: Done 34 tasks      | elapsed:    0.0s
[Parallel(n_jobs=-1)]: Done 1024 out of 1024 | elapsed:    0.8s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.0s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks     | elapsed:    0.0s

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[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.0s finished
[CV] ... max_features=4, total=    1.6s
[CV] max_features=6 ...

[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.
[Parallel(n_jobs=-1)]: Done  34 tasks      | elapsed:    0.0s
[Parallel(n_jobs=-1)]: Done 930 tasks      | elapsed:    0.9s
[Parallel(n_jobs=-1)]: Done 1024 out of 1024 | elapsed:    1.1s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done  25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.0s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done  25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.0s finished

[CV] ... max_features=6, total=    1.9s
[CV] max_features=6 ...

[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.
[Parallel(n_jobs=-1)]: Done  34 tasks      | elapsed:    0.0s
[Parallel(n_jobs=-1)]: Done 1024 out of 1024 | elapsed:    0.9s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done  25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.0s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done  25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.0s finished

[CV] ... max_features=6, total=    1.8s
[CV] max_features=6 ...

[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.
[Parallel(n_jobs=-1)]: Done  34 tasks      | elapsed:    0.0s
[Parallel(n_jobs=-1)]: Done 1024 out of 1024 | elapsed:    0.9s finished

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[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.0s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.0s finished

[CV] ... max_features=6, total=    1.7s
[CV] max_features=6 ...

[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.
[Parallel(n_jobs=-1)]: Done 34 tasks      | elapsed:    0.0s
[Parallel(n_jobs=-1)]: Done 1024 out of 1024 | elapsed:    0.9s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.1s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.0s finished

[CV] ... max_features=6, total=    1.7s
[CV] max_features=6 ...

[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.
[Parallel(n_jobs=-1)]: Done 34 tasks      | elapsed:    0.0s
[Parallel(n_jobs=-1)]: Done 1024 out of 1024 | elapsed:    0.9s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.0s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.

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[Parallel(n_jobs=8)]: Done 25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.0s finished

[CV] ... max_features=6, total=    1.7s
[CV] max_features=8 ...

[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.
[Parallel(n_jobs=-1)]: Done 34 tasks     | elapsed:    0.0s
[Parallel(n_jobs=-1)]: Done 1024 out of 1024 | elapsed:    1.1s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.0s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.0s finished

[CV] ... max_features=8, total=    1.9s
[CV] max_features=8 ...

[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.
[Parallel(n_jobs=-1)]: Done 34 tasks     | elapsed:    0.0s
[Parallel(n_jobs=-1)]: Done 1024 out of 1024 | elapsed:    1.1s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.0s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.0s finished

[CV] ... max_features=8, total=    1.9s

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[CV] max_features=8 ...

[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.
[Parallel(n_jobs=-1)]: Done 34 tasks      | elapsed:    0.0s
[Parallel(n_jobs=-1)]: Done 1024 out of 1024 | elapsed:    1.1s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.0s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.0s finished

[CV] ... max_features=8, total=    1.9s
[CV] max_features=8 ...

[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.
[Parallel(n_jobs=-1)]: Done 34 tasks      | elapsed:    0.0s
[Parallel(n_jobs=-1)]: Done 1024 out of 1024 | elapsed:    1.1s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.0s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.0s finished

[CV] ... max_features=8, total=    1.9s
[CV] max_features=8 ...

[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.
[Parallel(n_jobs=-1)]: Done 34 tasks      | elapsed:    0.0s
[Parallel(n_jobs=-1)]: Done 1024 out of 1024 | elapsed:    1.1s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks     | elapsed:    0.0s

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[Parallel(n_jobs=8)]: Done 349 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.0s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks       | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.0s finished

[CV] ... max_features=8, total=    1.9s
[CV] max_features=12 ...

[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.
[Parallel(n_jobs=-1)]: Done 34 tasks      | elapsed:    0.0s
[Parallel(n_jobs=-1)]: Done 1024 out of 1024 | elapsed:    1.4s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks       | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.0s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks       | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.0s finished

[CV] ... max_features=12, total=    2.2s
[CV] max_features=12 ...

[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.
[Parallel(n_jobs=-1)]: Done 34 tasks      | elapsed:    0.0s
[Parallel(n_jobs=-1)]: Done 1024 out of 1024 | elapsed:    1.4s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks       | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.0s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks       | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks      | elapsed:    0.0s

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[Parallel(n_jobs=8)]: Done 632 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks      | elapsed:    0.1s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.1s finished

[CV] ... max_features=12, total=    2.2s
[CV] max_features=12 ...

[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.
[Parallel(n_jobs=-1)]: Done 34 tasks      | elapsed:    0.0s
[Parallel(n_jobs=-1)]: Done 1024 out of 1024 | elapsed:    1.6s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.0s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.0s finished

[CV] ... max_features=12, total=    2.4s
[CV] max_features=12 ...

[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.
[Parallel(n_jobs=-1)]: Done 34 tasks      | elapsed:    0.0s
[Parallel(n_jobs=-1)]: Done 1024 out of 1024 | elapsed:    1.6s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.0s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.0s finished

[CV] ... max_features=12, total=    2.4s
[CV] max_features=12 ...

[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.
[Parallel(n_jobs=-1)]: Done 34 tasks      | elapsed:    0.0s

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[Parallel(n_jobs=-1)]: Done 1024 out of 1024 | elapsed:    1.5s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks     | elapsed:    0.1s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.1s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.0s finished

[CV] ... max_features=12, total=    2.3s

[Parallel(n_jobs=1)]: Done 30 out of 30 | elapsed:   52.3s finished
[Parallel(n_jobs=-1)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=-1)]: Done 25 tasks      | elapsed:    0.0s

building tree 1 of 1024building tree 2 of 1024
building tree 3 of 1024
building tree 4 of 1024
building tree 5 of 1024

building tree 6 of 1024building tree 7 of 1024

building tree 8 of 1024
building tree 9 of 1024
building tree 10 of 1024building tree 11 of 1024

building tree 12 of 1024
building tree 13 of 1024building tree 14 of 1024building tree 15 of 1024

building tree 16 of 1024
building tree 17 of 1024building tree 18 of 1024

building tree 19 of 1024building tree 20 of 1024

building tree 21 of 1024
building tree 22 of 1024
building tree 23 of 1024
building tree 24 of 1024building tree 25 of 1024

building tree 26 of 1024building tree 27 of 1024building tree 28 of 1024

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building tree 29 of 1024
building tree 30 of 1024
building tree 31 of 1024
building tree 32 of 1024
building tree 33 of 1024
building tree 34 of 1024building tree 35 of 1024
building tree 36 of 1024

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[Parallel(n_jobs=-1)]: Done 146 tasks | elapsed: 0.2s

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[Parallel(n_jobs=-1)]: Done 349 tasks | elapsed: 0.6s

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[Parallel(n_jobs=-1)]: Done 632 tasks | elapsed: 1.2s

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[Parallel(n_jobs=-1)]: Done 997 tasks      | elapsed:    1.9s
[Parallel(n_jobs=-1)]: Done 1024 out of 1024 | elapsed:    1.9s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks     | elapsed:    0.1s
[Parallel(n_jobs=8)]: Done 997 tasks     | elapsed:    0.2s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.2s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks     | elapsed:    0.1s
[Parallel(n_jobs=8)]: Done 632 tasks     | elapsed:    0.2s
[Parallel(n_jobs=8)]: Done 997 tasks     | elapsed:    0.3s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.3s finished
[Parallel(n_jobs=-1)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=-1)]: Done 25 tasks      | elapsed:    0.0s
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[Parallel(n_jobs=-1)]: Done 146 tasks | elapsed: 0.2s
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[Parallel(n_jobs=-1)]: Done 349 tasks | elapsed: 0.6s

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[Parallel(n_jobs=-1)]: Done 632 tasks | elapsed: 1.3s
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[Parallel(n_jobs=-1)]: Done 997 tasks | elapsed: 2.1s
[Parallel(n_jobs=-1)]: Done 1024 out of 1024 | elapsed: 2.1s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks | elapsed: 0.0s
[Parallel(n_jobs=8)]: Done 146 tasks | elapsed: 0.0s
[Parallel(n_jobs=8)]: Done 349 tasks | elapsed: 0.0s
[Parallel(n_jobs=8)]: Done 632 tasks | elapsed: 0.1s
[Parallel(n_jobs=8)]: Done 997 tasks | elapsed: 0.3s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed: 0.3s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks | elapsed: 0.0s
[Parallel(n_jobs=8)]: Done 146 tasks | elapsed: 0.0s
[Parallel(n_jobs=8)]: Done 349 tasks | elapsed: 0.1s
[Parallel(n_jobs=8)]: Done 632 tasks | elapsed: 0.2s
[Parallel(n_jobs=8)]: Done 997 tasks | elapsed: 0.3s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed: 0.3s finished
[Parallel(n_jobs=-1)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=-1)]: Done 25 tasks | elapsed: 0.0s

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[Parallel(n_jobs=-1)]: Done 146 tasks | elapsed: 0.2s
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[Parallel(n_jobs=-1)]: Done 349 tasks | elapsed: 0.7s

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[Parallel(n_jobs=-1)]: Done 632 tasks | elapsed: 1.2s

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```

```

[Parallel(n_jobs=-1)]: Done 997 tasks      | elapsed:    2.0s
[Parallel(n_jobs=-1)]: Done 1024 out of 1024 | elapsed:    2.0s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks     | elapsed:    0.1s
[Parallel(n_jobs=8)]: Done 997 tasks     | elapsed:    0.3s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.3s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks     | elapsed:    0.1s
[Parallel(n_jobs=8)]: Done 632 tasks     | elapsed:    0.2s
[Parallel(n_jobs=8)]: Done 997 tasks     | elapsed:    0.3s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.3s finished
[Parallel(n_jobs=1)]: Using backend SequentialBackend with 1 concurrent workers.

```

Trial 5

Fitting 5 folds for each of 6 candidates, totalling 30 fits

```
[CV] max_features=1 ...
```

```

[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.
[Parallel(n_jobs=-1)]: Done 34 tasks      | elapsed:    0.0s
[Parallel(n_jobs=-1)]: Done 1024 out of 1024 | elapsed:    0.7s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.0s finished

```

```

[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks     | elapsed:    0.1s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.1s finished

[CV] ... max_features=1, total=    1.6s
[CV] max_features=1 ...

[Parallel(n_jobs=1)]: Done 1 out of 1 | elapsed:    1.5s remaining:    0.0s
[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.
[Parallel(n_jobs=-1)]: Done 34 tasks     | elapsed:    0.0s
[Parallel(n_jobs=-1)]: Done 1024 out of 1024 | elapsed:    0.7s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.0s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks     | elapsed:    0.1s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.1s finished

[CV] ... max_features=1, total=    1.5s
[CV] max_features=1 ...

[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.
[Parallel(n_jobs=-1)]: Done 34 tasks     | elapsed:    0.0s
[Parallel(n_jobs=-1)]: Done 1024 out of 1024 | elapsed:    0.7s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.0s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks     | elapsed:    0.1s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.1s finished

```



```

[CV] ... max_features=1, total=    1.5s
[CV] max_features=1 ...

[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.
[Parallel(n_jobs=-1)]: Done   34 tasks      | elapsed:    0.0s
[Parallel(n_jobs=-1)]: Done 1024 out of 1024 | elapsed:    0.8s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done   25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done  146 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done  349 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done  632 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done  997 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.0s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done   25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done  146 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done  349 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done  632 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done  997 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.0s finished

[CV] ... max_features=1, total=    1.6s
[CV] max_features=1 ...

[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.
[Parallel(n_jobs=-1)]: Done   34 tasks      | elapsed:    0.0s
[Parallel(n_jobs=-1)]: Done 1024 out of 1024 | elapsed:    0.7s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done   25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done  146 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done  349 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done  632 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done  997 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.0s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done   25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done  146 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done  349 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done  632 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done  997 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.0s finished

[CV] ... max_features=1, total=    1.5s
[CV] max_features=2 ...

[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.
[Parallel(n_jobs=-1)]: Done   34 tasks      | elapsed:    0.0s
[Parallel(n_jobs=-1)]: Done 1024 out of 1024 | elapsed:    0.7s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done   25 tasks      | elapsed:    0.0s

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[Parallel(n_jobs=8)]: Done 146 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.0s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks       | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.0s finished

[CV] ... max_features=2, total=    1.5s
[CV] max_features=2 ...

[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.
[Parallel(n_jobs=-1)]: Done 34 tasks      | elapsed:    0.0s
[Parallel(n_jobs=-1)]: Done 1024 out of 1024 | elapsed:    0.7s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks       | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.0s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks       | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.1s finished

[CV] ... max_features=2, total=    1.5s
[CV] max_features=2 ...

[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.
[Parallel(n_jobs=-1)]: Done 34 tasks      | elapsed:    0.0s
[Parallel(n_jobs=-1)]: Done 1024 out of 1024 | elapsed:    0.7s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks       | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.0s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks       | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks      | elapsed:    0.0s

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[Parallel(n_jobs=8)]: Done 349 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.0s finished

[CV] ... max_features=2, total=    1.6s
[CV] max_features=2 ...

[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.
[Parallel(n_jobs=-1)]: Done  34 tasks      | elapsed:    0.0s
[Parallel(n_jobs=-1)]: Done 1024 out of 1024 | elapsed:    0.7s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done  25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.0s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done  25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.0s finished

[CV] ... max_features=2, total=    1.5s
[CV] max_features=2 ...

[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.
[Parallel(n_jobs=-1)]: Done  34 tasks      | elapsed:    0.0s
[Parallel(n_jobs=-1)]: Done 1024 out of 1024 | elapsed:    0.7s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done  25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.0s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done  25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.0s finished

[CV] ... max_features=2, total=    1.5s
[CV] max_features=4 ...

[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.

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[Parallel(n_jobs=-1)]: Done 34 tasks      | elapsed:    0.0s
[Parallel(n_jobs=-1)]: Done 1024 out of 1024 | elapsed:    0.8s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.0s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.0s finished

[CV] ... max_features=4, total=    1.6s
[CV] max_features=4 ...

[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.
[Parallel(n_jobs=-1)]: Done 34 tasks      | elapsed:    0.0s
[Parallel(n_jobs=-1)]: Done 1024 out of 1024 | elapsed:    0.8s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.0s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.0s finished

[CV] ... max_features=4, total=    1.6s
[CV] max_features=4 ...

[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.
[Parallel(n_jobs=-1)]: Done 34 tasks      | elapsed:    0.0s
[Parallel(n_jobs=-1)]: Done 1024 out of 1024 | elapsed:    0.8s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks     | elapsed:    0.0s

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[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.0s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.0s finished

[CV] ... max_features=4, total=    1.6s
[CV] max_features=4 ...

[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.
[Parallel(n_jobs=-1)]: Done 34 tasks      | elapsed:    0.0s
[Parallel(n_jobs=-1)]: Done 1024 out of 1024 | elapsed:    0.8s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.0s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.0s finished

[CV] ... max_features=4, total=    1.6s
[CV] max_features=4 ...

[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.
[Parallel(n_jobs=-1)]: Done 34 tasks      | elapsed:    0.0s
[Parallel(n_jobs=-1)]: Done 1024 out of 1024 | elapsed:    0.8s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.0s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.0s finished

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[CV] ... max_features=4, total=    1.6s
[CV] max_features=6 ...

[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.
[Parallel(n_jobs=-1)]: Done  34 tasks      | elapsed:    0.0s
[Parallel(n_jobs=-1)]: Done 1024 out of 1024 | elapsed:    1.0s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done  25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.0s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done  25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks      | elapsed:    0.1s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.1s finished

[CV] ... max_features=6, total=    1.8s
[CV] max_features=6 ...

[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.
[Parallel(n_jobs=-1)]: Done  34 tasks      | elapsed:    0.0s
[Parallel(n_jobs=-1)]: Done 1024 out of 1024 | elapsed:    1.1s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done  25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks      | elapsed:    0.1s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.1s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done  25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.0s finished

[CV] ... max_features=6, total=    2.0s
[CV] max_features=6 ...

[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.
[Parallel(n_jobs=-1)]: Done  34 tasks      | elapsed:    0.0s
[Parallel(n_jobs=-1)]: Done 1024 out of 1024 | elapsed:    0.9s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done  25 tasks      | elapsed:    0.0s

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[Parallel(n_jobs=8)]: Done 146 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.0s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks       | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.0s finished

[CV] ... max_features=6, total=    1.8s
[CV] max_features=6 ...

[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.
[Parallel(n_jobs=-1)]: Done 34 tasks      | elapsed:    0.0s
[Parallel(n_jobs=-1)]: Done 1024 out of 1024 | elapsed:    1.0s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks       | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.0s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks       | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.0s finished

[CV] ... max_features=6, total=    1.8s
[CV] max_features=6 ...

[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.
[Parallel(n_jobs=-1)]: Done 34 tasks      | elapsed:    0.0s
[Parallel(n_jobs=-1)]: Done 1024 out of 1024 | elapsed:    1.0s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks       | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.0s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks       | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks      | elapsed:    0.0s

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[Parallel(n_jobs=8)]: Done 349 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.0s finished

[CV] ... max_features=6, total=    1.8s
[CV] max_features=8 ...

[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.
[Parallel(n_jobs=-1)]: Done  34 tasks      | elapsed:    0.0s
[Parallel(n_jobs=-1)]: Done 1024 out of 1024 | elapsed:    1.1s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done  25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.0s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done  25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.0s finished

[CV] ... max_features=8, total=    1.9s
[CV] max_features=8 ...

[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.
[Parallel(n_jobs=-1)]: Done  34 tasks      | elapsed:    0.0s
[Parallel(n_jobs=-1)]: Done 1024 out of 1024 | elapsed:    1.1s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done  25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.0s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done  25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.0s finished

[CV] ... max_features=8, total=    2.0s
[CV] max_features=8 ...

[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.

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[Parallel(n_jobs=-1)]: Done 34 tasks      | elapsed:    0.0s
[Parallel(n_jobs=-1)]: Done 1024 out of 1024 | elapsed:    1.1s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.0s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.0s finished

[CV] ... max_features=8, total=    2.0s
[CV] max_features=8 ...

[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.
[Parallel(n_jobs=-1)]: Done 34 tasks      | elapsed:    0.0s
[Parallel(n_jobs=-1)]: Done 1024 out of 1024 | elapsed:    1.1s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.0s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.0s finished

[CV] ... max_features=8, total=    1.9s
[CV] max_features=8 ...

[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.
[Parallel(n_jobs=-1)]: Done 34 tasks      | elapsed:    0.0s
[Parallel(n_jobs=-1)]: Done 1024 out of 1024 | elapsed:    1.1s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks     | elapsed:    0.0s

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[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.0s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.0s finished

[CV] ... max_features=8, total=    1.9s
[CV] max_features=12 ...

[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.
[Parallel(n_jobs=-1)]: Done 34 tasks      | elapsed:    0.0s
[Parallel(n_jobs=-1)]: Done 1024 out of 1024 | elapsed:    1.5s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.0s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.0s finished

[CV] ... max_features=12, total=    2.3s
[CV] max_features=12 ...

[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.
[Parallel(n_jobs=-1)]: Done 34 tasks      | elapsed:    0.0s
[Parallel(n_jobs=-1)]: Done 1024 out of 1024 | elapsed:    1.5s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.0s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.1s finished

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[CV] ... max_features=12, total= 2.3s
[CV] max_features=12 ...

[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.
[Parallel(n_jobs=-1)]: Done 34 tasks | elapsed: 0.0s
[Parallel(n_jobs=-1)]: Done 1024 out of 1024 | elapsed: 1.5s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks | elapsed: 0.0s
[Parallel(n_jobs=8)]: Done 146 tasks | elapsed: 0.0s
[Parallel(n_jobs=8)]: Done 349 tasks | elapsed: 0.0s
[Parallel(n_jobs=8)]: Done 632 tasks | elapsed: 0.0s
[Parallel(n_jobs=8)]: Done 997 tasks | elapsed: 0.0s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed: 0.0s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks | elapsed: 0.0s
[Parallel(n_jobs=8)]: Done 146 tasks | elapsed: 0.0s
[Parallel(n_jobs=8)]: Done 349 tasks | elapsed: 0.0s
[Parallel(n_jobs=8)]: Done 632 tasks | elapsed: 0.0s
[Parallel(n_jobs=8)]: Done 997 tasks | elapsed: 0.0s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed: 0.0s finished

[CV] ... max_features=12, total= 2.3s
[CV] max_features=12 ...

[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.
[Parallel(n_jobs=-1)]: Done 34 tasks | elapsed: 0.0s
[Parallel(n_jobs=-1)]: Done 1024 out of 1024 | elapsed: 1.6s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks | elapsed: 0.0s
[Parallel(n_jobs=8)]: Done 146 tasks | elapsed: 0.0s
[Parallel(n_jobs=8)]: Done 349 tasks | elapsed: 0.0s
[Parallel(n_jobs=8)]: Done 632 tasks | elapsed: 0.0s
[Parallel(n_jobs=8)]: Done 997 tasks | elapsed: 0.0s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed: 0.0s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks | elapsed: 0.0s
[Parallel(n_jobs=8)]: Done 146 tasks | elapsed: 0.0s
[Parallel(n_jobs=8)]: Done 349 tasks | elapsed: 0.0s
[Parallel(n_jobs=8)]: Done 632 tasks | elapsed: 0.0s
[Parallel(n_jobs=8)]: Done 997 tasks | elapsed: 0.0s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed: 0.0s finished

[CV] ... max_features=12, total= 2.4s
[CV] max_features=12 ...

[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.
[Parallel(n_jobs=-1)]: Done 34 tasks | elapsed: 0.0s
[Parallel(n_jobs=-1)]: Done 1024 out of 1024 | elapsed: 1.5s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks | elapsed: 0.0s

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[Parallel(n_jobs=8)]: Done 146 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.0s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks       | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 997 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.0s finished

[CV] ... max_features=12, total= 2.3s

[Parallel(n_jobs=1)]: Done 30 out of 30 | elapsed: 53.6s finished
[Parallel(n_jobs=-1)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=-1)]: Done 25 tasks      | elapsed:    0.0s

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[Parallel(n_jobs=-1)]: Done 146 tasks | elapsed: 0.2s

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[Parallel(n_jobs=-1)]: Done 349 tasks | elapsed: 0.5s

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[Parallel(n_jobs=-1)]: Done 632 tasks | elapsed: 1.0s
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[Parallel(n_jobs=-1)]: Done 997 tasks      | elapsed:    1.6s
[Parallel(n_jobs=-1)]: Done 1024 out of 1024 | elapsed:    1.7s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks     | elapsed:    0.1s
[Parallel(n_jobs=8)]: Done 997 tasks     | elapsed:    0.2s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.2s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks     | elapsed:    0.1s
[Parallel(n_jobs=8)]: Done 997 tasks     | elapsed:    0.3s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.3s finished
[Parallel(n_jobs=-1)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=-1)]: Done 25 tasks      | elapsed:    0.0s
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[Parallel(n_jobs=-1)]: Done 146 tasks | elapsed: 0.2s

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[Parallel(n_jobs=-1)]: Done 349 tasks | elapsed: 0.6s

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[Parallel(n_jobs=-1)]: Done 632 tasks | elapsed: 1.1s

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[Parallel(n_jobs=-1)]: Done 997 tasks      | elapsed:    1.8s
[Parallel(n_jobs=-1)]: Done 1024 out of 1024 | elapsed:    1.8s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks       | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks      | elapsed:    0.1s
[Parallel(n_jobs=8)]: Done 997 tasks      | elapsed:    0.2s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.2s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks       | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks      | elapsed:    0.1s
[Parallel(n_jobs=8)]: Done 997 tasks      | elapsed:    0.3s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.3s finished
[Parallel(n_jobs=-1)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=-1)]: Done 25 tasks      | elapsed:    0.0s
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[Parallel(n_jobs=-1)]: Done 146 tasks | elapsed: 0.2s

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[Parallel(n_jobs=-1)]: Done 349 tasks | elapsed: 0.6s

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[Parallel(n_jobs=-1)]: Done 632 tasks | elapsed: 1.1s
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building tree 974 of 1024building tree 975 of 1024building tree 976 of 1024

building tree 977 of 1024
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building tree 979 of 1024
building tree 980 of 1024
building tree 981 of 1024building tree 982 of 1024

building tree 983 of 1024
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building tree 985 of 1024building tree 986 of 1024
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building tree 989 of 1024building tree 990 of 1024

building tree 991 of 1024
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building tree 994 of 1024
building tree 995 of 1024

building tree 996 of 1024
building tree 997 of 1024
building tree 998 of 1024building tree 999 of 1024

building tree 1000 of 1024
building tree 1001 of 1024building tree 1002 of 1024
building tree 1003 of 1024
building tree 1004 of 1024

building tree 1005 of 1024building tree 1006 of 1024
building tree 1007 of 1024
building tree 1008 of 1024
building tree 1009 of 1024
building tree 1010 of 1024
building tree 1011 of 1024

building tree 1012 of 1024
building tree 1013 of 1024
building tree 1014 of 1024
building tree 1015 of 1024building tree 1016 of 1024

building tree 1017 of 1024

```

building tree 1018 of 1024
building tree 1019 of 1024building tree 1020 of 1024

building tree 1021 of 1024building tree 1022 of 1024building tree 1023 of 1024

building tree 1024 of 1024
[Parallel(n_jobs=-1)]: Done 997 tasks      | elapsed:    1.8s
[Parallel(n_jobs=-1)]: Done 1024 out of 1024 | elapsed:    1.8s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks     | elapsed:    0.1s
[Parallel(n_jobs=8)]: Done 997 tasks     | elapsed:    0.2s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.2s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks      | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 146 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 349 tasks     | elapsed:    0.0s
[Parallel(n_jobs=8)]: Done 632 tasks     | elapsed:    0.1s
[Parallel(n_jobs=8)]: Done 997 tasks     | elapsed:    0.3s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed:    0.3s finished

```

```
[89]: metrics_letter_P2_RF
```

```
[89]: array([[1.          , 1.          , 1.          , 0.94846667, 0.94329062,
            0.94594942],
            [1.          , 1.          , 1.          , 0.95213333, 0.9483465 ,
            0.95237009],
            [1.          , 1.          , 1.          , 0.94986667, 0.94373759,
            0.94724254],
            [1.          , 1.          , 1.          , 0.95506667, 0.95010941,
            0.95346684],
            [1.          , 1.          , 1.          , 0.95053333, 0.94492116,
            0.94949375]])
```

DT: LETTER P2

```
[90]: metrics_letter_P2_DT = np.zeros((5, 6))

for i in range(5):
    print("\n Trial", i+1)
    # randomly split the data. size of training data will be 5000
    X_train, X_test, Y_train, Y_test = train_test_split(X_letter, Y_letter_P2,
    ↪train_size = 5000)
```

```

# initialize the classifier
classifier_DT = DecisionTreeClassifier(random_state = 0)

crit_list = ['gini', 'entropy']
depth_list = [1, 2, 3, 4, 5]

parameters = {'criterion': crit_list, 'max_depth': depth_list}

search_clf = GridSearchCV(classifier_DT, parameters, cv =
↳StratifiedKFold(n_splits = 5),
                        scoring = ['accuracy', 'roc_auc_ovr', 'f1_micro'],
↳refit = False, verbose = 0, n_jobs = -1)
match_model = search_clf.fit(X_train, Y_train)

match_param = match_model.cv_results_['params'][np.argmin(match_model.
↳cv_results_['rank_test_roc_auc_ovr'])]
classifier_DT.set_params(**match_param)
classifier_DT.fit(X_train, Y_train)
Y_pred_train_auc = classifier_DT.predict(X_train)
Y_pred_test_auc = classifier_DT.predict(X_test)
metrics_letter_P2_DT[i, 2] = roc_auc_score(Y_train, Y_pred_train_auc)
metrics_letter_P2_DT[i, 5] = roc_auc_score(Y_test, Y_pred_test_auc)

match_param = match_model.cv_results_['params'][np.argmin(match_model.
↳cv_results_['rank_test_accuracy'])]
classifier_DT.set_params(**match_param)
classifier_DT.fit(X_train, Y_train)
Y_pred_train_acc = classifier_DT.predict(X_train)
Y_pred_test_acc = classifier_DT.predict(X_test)
metrics_letter_P2_DT[i, 0] = accuracy_score(Y_train, Y_pred_train_acc)
metrics_letter_P2_DT[i, 3] = accuracy_score(Y_test, Y_pred_test_acc)

match_param = match_model.cv_results_['params'][np.argmin(match_model.
↳cv_results_['rank_test_f1_micro'])]
classifier_DT.set_params(**match_param)
classifier_DT.fit(X_train, Y_train)
Y_pred_train_f1 = classifier_DT.predict(X_train)
Y_pred_test_f1 = classifier_DT.predict(X_test)
metrics_letter_P2_DT[i, 1] = f1_score(Y_train, Y_pred_train_f1)
metrics_letter_P2_DT[i, 4] = f1_score(Y_test, Y_pred_test_f1)

```

Trial 1

Fitting 5 folds for each of 10 candidates, totalling 50 fits

[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.

[Parallel(n_jobs=-1)]: Done 25 tasks | elapsed: 0.5s

```

[Parallel(n_jobs=-1)]: Done 50 out of 50 | elapsed: 0.6s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks | elapsed: 0.0s
[Parallel(n_jobs=8)]: Done 146 tasks | elapsed: 0.0s
[Parallel(n_jobs=8)]: Done 349 tasks | elapsed: 0.0s
[Parallel(n_jobs=8)]: Done 632 tasks | elapsed: 0.1s
[Parallel(n_jobs=8)]: Done 997 tasks | elapsed: 0.3s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed: 0.3s finished
[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.

```

Trial 2

Fitting 5 folds for each of 10 candidates, totalling 50 fits

```

[Parallel(n_jobs=-1)]: Done 50 out of 50 | elapsed: 0.1s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks | elapsed: 0.0s
[Parallel(n_jobs=8)]: Done 146 tasks | elapsed: 0.0s
[Parallel(n_jobs=8)]: Done 349 tasks | elapsed: 0.0s
[Parallel(n_jobs=8)]: Done 632 tasks | elapsed: 0.1s
[Parallel(n_jobs=8)]: Done 997 tasks | elapsed: 0.3s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed: 0.3s finished

```

Trial 3

Fitting 5 folds for each of 10 candidates, totalling 50 fits

```

[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.
[Parallel(n_jobs=-1)]: Done 50 out of 50 | elapsed: 0.1s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks | elapsed: 0.0s
[Parallel(n_jobs=8)]: Done 146 tasks | elapsed: 0.0s
[Parallel(n_jobs=8)]: Done 349 tasks | elapsed: 0.0s
[Parallel(n_jobs=8)]: Done 632 tasks | elapsed: 0.1s
[Parallel(n_jobs=8)]: Done 997 tasks | elapsed: 0.3s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed: 0.3s finished
[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.

```

Trial 4

Fitting 5 folds for each of 10 candidates, totalling 50 fits

```

[Parallel(n_jobs=-1)]: Done 50 out of 50 | elapsed: 0.1s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks | elapsed: 0.0s
[Parallel(n_jobs=8)]: Done 146 tasks | elapsed: 0.0s
[Parallel(n_jobs=8)]: Done 349 tasks | elapsed: 0.0s
[Parallel(n_jobs=8)]: Done 632 tasks | elapsed: 0.1s
[Parallel(n_jobs=8)]: Done 997 tasks | elapsed: 0.3s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed: 0.3s finished

```


Trial 5

Fitting 5 folds for each of 10 candidates, totalling 50 fits

```
[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.
[Parallel(n_jobs=-1)]: Done 50 out of 50 | elapsed: 0.1s finished
[Parallel(n_jobs=8)]: Using backend ThreadingBackend with 8 concurrent workers.
[Parallel(n_jobs=8)]: Done 25 tasks | elapsed: 0.0s
[Parallel(n_jobs=8)]: Done 146 tasks | elapsed: 0.0s
[Parallel(n_jobs=8)]: Done 349 tasks | elapsed: 0.0s
[Parallel(n_jobs=8)]: Done 632 tasks | elapsed: 0.1s
[Parallel(n_jobs=8)]: Done 997 tasks | elapsed: 0.3s
[Parallel(n_jobs=8)]: Done 1024 out of 1024 | elapsed: 0.3s finished
```

```
[91]: metrics_letter_P2_DT
```

```
[91]: array([[0.793      , 0.73710947, 0.7805206 , 0.79053333, 0.7373788 ,
            0.96269311],
            [0.774      , 0.71099744, 0.75926941, 0.76486667, 0.7076668 ,
            0.96207077],
            [0.7768     , 0.70192308, 0.75820924, 0.75786667, 0.68494101,
            0.96233431],
            [0.7708     , 0.71787297, 0.76024418, 0.7704      , 0.71825916,
            0.96251543],
            [0.7784     , 0.74244537, 0.77216162, 0.77526667, 0.74130919,
            0.96327285]])
```

T-test

```
[158]: # Best performing algorithm: RF
sample_RF = np.concatenate([metrics_adult_RF[:, 3], metrics_cov_RF[:, 3],
                           metrics_letter_P1_RF[:, 3], metrics_letter_P2_RF[:, 3],
                           ↪3]], axis = 0)
sample_RF
```

```
[158]: array([0.85163818, 0.84844527, 0.85240013, 0.85131164, 0.85065854,
            0.83675166, 0.83625515, 0.83703291, 0.83702423, 0.83791136,
            0.98813333, 0.9876      , 0.9876      , 0.9866      , 0.9888      ,
            0.94846667, 0.95213333, 0.94986667, 0.95506667, 0.95053333])
```

```
[160]: # collect samples from the other 2 algorithms
sample_LR = np.concatenate([metrics_adult_LR[:, 3], metrics_cov_LR[:, 3],
                           metrics_letter_P1_LR[:, 3], metrics_letter_P2_LR[:, 3],
                           ↪3]], axis = 0)
sample_DT = np.concatenate([metrics_adult_DT[:, 3], metrics_cov_DT[:, 3],
                           metrics_letter_P1_DT[:, 3], metrics_letter_P2_DT[:, 3],
                           ↪3]], axis = 0)
```

```
[166]: # calculate the t-stats and p-value
t_RF_to_LR, p_RF_to_LR = stats.ttest_rel(sample_RF, sample_LR)
t_RF_to_DT, p_RF_to_DT = stats.ttest_rel(sample_RF, sample_DT)

print("LR T-score", t_RF_to_LR, "P-val", p_RF_to_LR)
print("\nDT T-score", t_RF_to_DT, "P-val", p_RF_to_DT)
```

LR T-score 4.089511387837782 P-val 0.0006245260622060548

DT T-score 4.382095535733293 P-val 0.0003205097129249151

```
[198]: stats.ttest_rel(metrics_letter_P2_RF[:, 3], metrics_letter_P2_DT[:, 3])
```

```
[198]: Ttest_relResult(statistic=29.77485660673187, pvalue=7.576938195597612e-06)
```

```
[177]: sample_RF_mean = np.concatenate([metrics_adult_RF[:, 3:], metrics_cov_RF[:, 3:],
                                         metrics_letter_P1_RF[:, 3:],
                                         ↪metrics_letter_P2_RF[:, 3:])).flatten()
sample_LR_mean = np.concatenate([metrics_adult_LR[:, 3:], metrics_cov_LR[:, 3:],
                                   metrics_letter_P1_LR[:, 3:],
                                   ↪metrics_letter_P2_LR[:, 3:])).flatten()
sample_DT_mean = np.concatenate([metrics_adult_DT[:, 3:], metrics_cov_DT[:, 3:],
                                   metrics_letter_P1_DT[:, 3:],
                                   ↪metrics_letter_P2_DT[:, 3:])).flatten()
```

```
[190]: stats.ttest_rel(sample_RF_mean, sample_LR_mean)
```

```
[190]: Ttest_relResult(statistic=6.187240551547834, pvalue=6.309619629498282e-08)
```

```
[174]: metrics_adult_RF[:, 3:]
```

```
[174]: array([[0.85163818, 0.65992373, 0.76748274],
              [0.84844527, 0.65980392, 0.76705636],
              [0.85240013, 0.67113444, 0.7764564 ],
              [0.85131164, 0.668187  , 0.77118238],
              [0.85065854, 0.65934429, 0.76330076]])
```

```
[191]: stats.ttest_rel(metrics_adult_RF[:, 3:].flatten(), metrics_adult_DT[:, 3:].
                                         ↪flatten())
```

```
[191]: Ttest_relResult(statistic=0.3316326432452893, pvalue=0.7450789414839258)
```

Some Arbitrary Mean Calculation

```
[103]: adult_LR_mean = np.mean(metrics_adult_LR, axis = 0)
adult_LR_mean
```

```
[103]: array([0.85676    , 0.66915106, 0.77074867, 0.8479373 , 0.64947827,
              0.7580694 ])
```

```
[104]: adult_RF_mean = np.mean(metrics_adult_RF, axis = 0)
adult_RF_mean
```

```
[104]: array([1.          , 1.          , 1.          , 0.85089075, 0.66367868,
              0.76909573])
```

```
[105]: adult_DT_mean = np.mean(metrics_adult_DT, axis = 0)
adult_DT_mean
```

```
[105]: array([0.85304    , 0.64975213, 0.74076271, 0.8461812 , 0.63152139,
              0.79859787])
```

```
[106]: cov_LR_mean = np.mean(metrics_cov_LR, axis = 0)
cov_LR_mean
```

```
[106]: array([0.77356    , 0.68221357, 0.74945215, 0.76867531, 0.67549161,
              0.74564008])
```

```
[107]: cov_RF_mean = np.mean(metrics_cov_RF, axis = 0)
cov_RF_mean
```

```
[107]: array([1.          , 1.          , 1.          , 0.83699506, 0.77247134,
              0.82077642])
```

```
[108]: cov_DT_mean = np.mean(metrics_cov_DT, axis = 0)
cov_DT_mean
```

```
[108]: array([0.77508    , 0.70383025, 0.77090701, 0.75725922, 0.68276045,
              0.81946363])
```

```
[109]: letter_P1_LR_mean = np.mean(metrics_letter_P1_LR, axis = 0)
letter_P1_LR_mean
```

```
[109]: array([0.96072    , 0.          , 0.5          , 0.96289333, 0.          ,
              0.5          ])
```

```
[110]: letter_P1_RF_mean = np.mean(metrics_letter_P1_RF, axis = 0)
letter_P1_RF_mean
```

```
[110]: array([1.          , 1.          , 1.          , 0.98774667, 0.8128099 ,  
            0.82701228])
```

```
[111]: letter_P1_DT_mean = np.mean(metrics_letter_P1_DT, axis = 0)  
letter_P1_DT_mean
```

```
[111]: array([0.9762      , 0.69069423, 0.63953271, 0.97137333, 0.63441374,  
            0.89212704])
```

```
[112]: letter_P2_LR_mean = np.mean(metrics_letter_P2_LR, axis = 0)  
letter_P2_LR_mean
```

```
[112]: array([0.73352     , 0.70410049, 0.7297647  , 0.73465333, 0.70584997,  
            0.73192523])
```

```
[113]: letter_P2_RF_mean = np.mean(metrics_letter_P2_RF, axis = 0)  
letter_P2_RF_mean
```

```
[113]: array([1.          , 1.          , 1.          , 0.95121333, 0.94608106,  
            0.94970453])
```

```
[114]: letter_P2_DT_mean = np.mean(metrics_letter_P2_DT, axis = 0)  
letter_P2_DT_mean
```

```
[114]: array([0.7786      , 0.72206967, 0.76608101, 0.77178667, 0.71791099,  
            0.96257729])
```