

In [193]:

```
# LIBRARIES
import pandas as pd
import numpy as np
import matplotlib.pyplot as plt
import mglearn as mglearn
import graphviz
import pprint

from sklearn.datasets import load_wine
from sklearn.preprocessing import OneHotEncoder
from IPython.display import Image
from sklearn import datasets
from mglearn.datasets import make_blobs
from sklearn.svm import SVC

from sklearn.model_selection import LeaveOneOut
from sklearn.model_selection import train_test_split, KFold
from sklearn.model_selection import RandomizedSearchCV, cross_val_score, GridSearchCV
from sklearn.tree import DecisionTreeClassifier, DecisionTreeRegressor, export_graphviz
from sklearn.linear_model import LinearRegression, LogisticRegression

from sklearn.ensemble import RandomForestClassifier
from sklearn.ensemble import RandomForestRegressor

from sklearn.metrics import classification_report, confusion_matrix
```

In [20]:

```
pp = pprint.PrettyPrinter(indent=4)
wine = load_wine()
logreg = LogisticRegression()
```

In [45]:

```
#Structuring wine dataset
print(wine.DESCR)
wine = datasets.load_wine()
df = pd.DataFrame(wine.data,columns=wine.feature_names)
print(df)
```

Wine Data Database
=====

Notes

- Data Set Characteristics:
- :Number of Instances: 178 (50 in each of three classes)
 - :Number of Attributes: 13 numeric, predictive attributes and the class
 - :Attribute Information:
 - 1) Alcohol
 - 2) Malic acid
 - 3) Ash
 - 4) Alcalinity of ash
 - 5) Magnesium
 - 6) Total phenols
 - 7) Flavanoids
 - 8) Nonflavanoid phenols
 - 9) Proanthocyanins
 - 10)Color intensity
 - 11)Hue
 - 12)OD280/OD315 of diluted wines
 - 13)Proline
 - class:
 - class_0
 - class_1
 - class_2

:Summary Statistics:

=====			
=====			
	Min	Max	Mean
SD			
=====			

```

=====
      Alcohol:                11.0   14.8    13.0
0.8
      Malic Acid:             0.74   5.80    2.34
1.12
      Ash:                    1.36   3.23    2.36
0.27
      Alcalinity of Ash:      10.6   30.0    19.5
3.3
      Magnesium:              70.0  162.0    99.7
14.3
      Total Phenols:          0.98   3.88    2.29
0.63
      Flavanoids:             0.34   5.08    2.03
1.00
      Nonflavanoid Phenols:   0.13   0.66    0.36
0.12
      Proanthocyanins:        0.41   3.58    1.59
0.57
      Colour Intensity:       1.3    13.0     5.1
2.3
      Hue:                    0.48   1.71    0.96
0.23
      OD280/OD315 of diluted wines: 1.27   4.00    2.61
0.71
      Proline:                 278   1680     746
315
      =====
=====

```

```

      :Missing Attribute Values: None
      :Class Distribution: class_0 (59), class_1 (71),
class_2 (48)
      :Creator: R.A. Fisher
      :Donor: Michael Marshall (MARSHALL%PLU@io.arc.na
sa.gov)
      :Date: July, 1988

```

This is a copy of UCI ML Wine recognition datasets.
<https://archive.ics.uci.edu/ml/machine-learning-data-bases/wine/wine.data>

The data is the results of a chemical analysis of wines grown in the same region in Italy by three different cultivators. Ther

e are thirteen different measurements taken for different constituents found in the three types of wine.

Original Owners:

Forina, M. et al, PARVUS -
An Extendible Package for Data Exploration, Classification and Correlation.
Institute of Pharmaceutical and Food Analysis and Technologies,
Via Brigata Salerno, 16147 Genoa, Italy.

Citation:

Lichman, M. (2013). UCI Machine Learning Repository [<http://archive.ics.uci.edu/ml>]. Irvine, CA: University of California, School of Information and Computer Science.

References

(1)
S. Aeberhard, D. Coomans and O. de Vel,
Comparison of Classifiers in High Dimensional Settings,
Tech. Rep. no. 92-02, (1992), Dept. of Computer Science and Dept. of Mathematics and Statistics, James Cook University of North Queensland.
(Also submitted to Technometrics).

The data was used with many others for comparing various classifiers. The classes are separable, though only RDA has achieved 100% correct classification.
(RDA : 100%, QDA 99.4%, LDA 98.9%, 1NN 96.1% (z-transformed data))
(All results using the leave-one-out technique)

(2)
S. Aeberhard, D. Coomans and O. de Vel,
"THE CLASSIFICATION PERFORMANCE OF RDA"

Tech. Rep. no. 92-01, (1992), Dept. of Computer Science and Dept. of Mathematics and Statistics, James Cook University of North Queensland.
(Also submitted to Journal of Chemometrics).

	alcohol	malic_acid	ash	alcalinity_of_ash	m
agnesium	total_phenols	\			
0	14.23	1.71	2.43		15.6
127.0		2.80			
1	13.20	1.78	2.14		11.2
100.0		2.65			
2	13.16	2.36	2.67		18.6
101.0		2.80			
3	14.37	1.95	2.50		16.8
113.0		3.85			
4	13.24	2.59	2.87		21.0
118.0		2.80			
5	14.20	1.76	2.45		15.2
112.0		3.27			
6	14.39	1.87	2.45		14.6
96.0		2.50			
7	14.06	2.15	2.61		17.6
121.0		2.60			
8	14.83	1.64	2.17		14.0
97.0		2.80			
9	13.86	1.35	2.27		16.0
98.0		2.98			
10	14.10	2.16	2.30		18.0
105.0		2.95			
11	14.12	1.48	2.32		16.8
95.0		2.20			
12	13.75	1.73	2.41		16.0
89.0		2.60			
13	14.75	1.73	2.39		11.4
91.0		3.10			
14	14.38	1.87	2.38		12.0
102.0		3.30			
15	13.63	1.81	2.70		17.2
112.0		2.85			
16	14.30	1.92	2.72		20.0
120.0		2.80			
17	13.83	1.57	2.62		20.0
115.0		2.95			
18	14.19	1.59	2.48		16.5

108.0		3.30		
19	13.64		3.10	2.56
116.0		2.70		
20	14.06		1.63	2.28
126.0		3.00		
21	12.93		3.80	2.65
102.0		2.41		
22	13.71		1.86	2.36
101.0		2.61		
23	12.85		1.60	2.52
95.0		2.48		
24	13.50		1.81	2.61
96.0		2.53		
25	13.05		2.05	3.22
124.0		2.63		
26	13.39		1.77	2.62
93.0		2.85		
27	13.30		1.72	2.14
94.0		2.40		
28	13.87		1.90	2.80
107.0		2.95		
29	14.02		1.68	2.21
96.0		2.65		
..
...		...		
148	13.32		3.24	2.38
92.0		1.93		
149	13.08		3.90	2.36
113.0		1.41		
150	13.50		3.12	2.62
123.0		1.40		
151	12.79		2.67	2.48
112.0		1.48		
152	13.11		1.90	2.75
116.0		2.20		
153	13.23		3.30	2.28
98.0		1.80		
154	12.58		1.29	2.10
103.0		1.48		
155	13.17		5.19	2.32
93.0		1.74		
156	13.84		4.12	2.38
89.0		1.80		
157	12.45		3.03	2.64
97.0		1.90		

158	14.34	1.68	2.70	25.0
98.0		2.80		
159	13.48	1.67	2.64	22.5
89.0		2.60		
160	12.36	3.83	2.38	21.0
88.0		2.30		
161	13.69	3.26	2.54	20.0
107.0		1.83		
162	12.85	3.27	2.58	22.0
106.0		1.65		
163	12.96	3.45	2.35	18.5
106.0		1.39		
164	13.78	2.76	2.30	22.0
90.0		1.35		
165	13.73	4.36	2.26	22.5
88.0		1.28		
166	13.45	3.70	2.60	23.0
111.0		1.70		
167	12.82	3.37	2.30	19.5
88.0		1.48		
168	13.58	2.58	2.69	24.5
105.0		1.55		
169	13.40	4.60	2.86	25.0
112.0		1.98		
170	12.20	3.03	2.32	19.0
96.0		1.25		
171	12.77	2.39	2.28	19.5
86.0		1.39		
172	14.16	2.51	2.48	20.0
91.0		1.68		
173	13.71	5.65	2.45	20.5
95.0		1.68		
174	13.40	3.91	2.48	23.0
102.0		1.80		
175	13.27	4.28	2.26	20.0
120.0		1.59		
176	13.17	2.59	2.37	20.0
120.0		1.65		
177	14.13	4.10	2.74	24.5
96.0		2.05		

	flavanoids	nonflavanoid_phenols	proanthocyanins
color_intensity	hue	\	
0	3.06	0.28	2.
29	5.640000	1.04	

1	2.76		0.26	1.
28	4.380000	1.05		
2	3.24		0.30	2.
81	5.680000	1.03		
3	3.49		0.24	2.
18	7.800000	0.86		
4	2.69		0.39	1.
82	4.320000	1.04		
5	3.39		0.34	1.
97	6.750000	1.05		
6	2.52		0.30	1.
98	5.250000	1.02		
7	2.51		0.31	1.
25	5.050000	1.06		
8	2.98		0.29	1.
98	5.200000	1.08		
9	3.15		0.22	1.
85	7.220000	1.01		
10	3.32		0.22	2.
38	5.750000	1.25		
11	2.43		0.26	1.
57	5.000000	1.17		
12	2.76		0.29	1.
81	5.600000	1.15		
13	3.69		0.43	2.
81	5.400000	1.25		
14	3.64		0.29	2.
96	7.500000	1.20		
15	2.91		0.30	1.
46	7.300000	1.28		
16	3.14		0.33	1.
97	6.200000	1.07		
17	3.40		0.40	1.
72	6.600000	1.13		
18	3.93		0.32	1.
86	8.700000	1.23		
19	3.03		0.17	1.
66	5.100000	0.96		
20	3.17		0.24	2.
10	5.650000	1.09		
21	2.41		0.25	1.
98	4.500000	1.03		
22	2.88		0.27	1.
69	3.800000	1.11		
23	2.37		0.26	1.

46	3.930000	1.09		
24	2.61		0.28	1.
66	3.520000	1.12		
25	2.68		0.47	1.
92	3.580000	1.13		
26	2.94		0.34	1.
45	4.800000	0.92		
27	2.19		0.27	1.
35	3.950000	1.02		
28	2.97		0.37	1.
76	4.500000	1.25		
29	2.33		0.26	1.
98	4.700000	1.04		
..
..		...		
148	0.76		0.45	1.
25	8.420000	0.55		
149	1.39		0.34	1.
14	9.400000	0.57		
150	1.57		0.22	1.
25	8.600000	0.59		
151	1.36		0.24	1.
26	10.800000	0.48		
152	1.28		0.26	1.
56	7.100000	0.61		
153	0.83		0.61	1.
87	10.520000	0.56		
154	0.58		0.53	1.
40	7.600000	0.58		
155	0.63		0.61	1.
55	7.900000	0.60		
156	0.83		0.48	1.
56	9.010000	0.57		
157	0.58		0.63	1.
14	7.500000	0.67		
158	1.31		0.53	2.
70	13.000000	0.57		
159	1.10		0.52	2.
29	11.750000	0.57		
160	0.92		0.50	1.
04	7.650000	0.56		
161	0.56		0.50	0.
80	5.880000	0.96		
162	0.60		0.60	0.
96	5.580000	0.87		

163	0.70		0.40	0.
94	5.280000	0.68		
164	0.68		0.41	1.
03	9.580000	0.70		
165	0.47		0.52	1.
15	6.620000	0.78		
166	0.92		0.43	1.
46	10.680000	0.85		
167	0.66		0.40	0.
97	10.260000	0.72		
168	0.84		0.39	1.
54	8.660000	0.74		
169	0.96		0.27	1.
11	8.500000	0.67		
170	0.49		0.40	0.
73	5.500000	0.66		
171	0.51		0.48	0.
64	9.899999	0.57		
172	0.70		0.44	1.
24	9.700000	0.62		
173	0.61		0.52	1.
06	7.700000	0.64		
174	0.75		0.43	1.
41	7.300000	0.70		
175	0.69		0.43	1.
35	10.200000	0.59		
176	0.68		0.53	1.
46	9.300000	0.60		
177	0.76		0.56	1.
35	9.200000	0.61		

	od280/od315_of_diluted_wines	proline
0	3.92	1065.0
1	3.40	1050.0
2	3.17	1185.0
3	3.45	1480.0
4	2.93	735.0
5	2.85	1450.0
6	3.58	1290.0
7	3.58	1295.0
8	2.85	1045.0
9	3.55	1045.0
10	3.17	1510.0
11	2.82	1280.0
12	2.90	1320.0

13	2.73	1150.0
14	3.00	1547.0
15	2.88	1310.0
16	2.65	1280.0
17	2.57	1130.0
18	2.82	1680.0
19	3.36	845.0
20	3.71	780.0
21	3.52	770.0
22	4.00	1035.0
23	3.63	1015.0
24	3.82	845.0
25	3.20	830.0
26	3.22	1195.0
27	2.77	1285.0
28	3.40	915.0
29	3.59	1035.0
..
148	1.62	650.0
149	1.33	550.0
150	1.30	500.0
151	1.47	480.0
152	1.33	425.0
153	1.51	675.0
154	1.55	640.0
155	1.48	725.0
156	1.64	480.0
157	1.73	880.0
158	1.96	660.0
159	1.78	620.0
160	1.58	520.0
161	1.82	680.0
162	2.11	570.0
163	1.75	675.0
164	1.68	615.0
165	1.75	520.0
166	1.56	695.0
167	1.75	685.0
168	1.80	750.0
169	1.92	630.0
170	1.83	510.0
171	1.63	470.0
172	1.71	660.0
173	1.74	740.0
174	1.56	750.0

175	1.56	835.0
176	1.62	840.0
177	1.60	560.0

[178 rows x 13 columns]

In [56]:

```
df = pd.DataFrame(wine.data, columns=wine.feature_names)
df['target'] = pd.Series(wine.target)
df.columns = ['Class label', 'Alcohol', 'Malic acid', 'Ash',
              'Alcalinity of ash', 'Magnesium', 'Total phenols',
              'Flavanoids', 'Nonflavanoid phenols', 'Proanthocya
nins',
              'Color intensity', 'Hue', 'OD280/OD315 of diluted
wines', 'Proline']
X = df.drop('Class label', 1)
y = df['Class label']
df.head()
print("The shape of features: ", df.shape)
print()
print(df.describe())
```

The shape of features: (178, 14)

	Class label	Alcohol	Malic acid	A
sh	Alcalinity of ash \			
count	178.000000	178.000000	178.000000	178.0000
00	178.000000			
mean	13.000618	2.336348	2.366517	19.4949
44	99.741573			
std	0.811827	1.117146	0.274344	3.3395
64	14.282484			
min	11.030000	0.740000	1.360000	10.6000
00	70.000000			
25%	12.362500	1.602500	2.210000	17.2000
00	88.000000			
50%	13.050000	1.865000	2.360000	19.5000
00	98.000000			
75%	13.677500	3.082500	2.557500	21.5000
00	107.000000			
max	14.830000	5.800000	3.230000	30.0000
00	162.000000			
	Magnesium	Total phenols	Flavanoids	Nonfla

vanoid phenols \			
count	178.000000	178.000000	178.000000
178.000000			
mean	2.295112	2.029270	0.361854
1.590899			
std	0.625851	0.998859	0.124453
0.572359			
min	0.980000	0.340000	0.130000
0.410000			
25%	1.742500	1.205000	0.270000
1.250000			
50%	2.355000	2.135000	0.340000
1.555000			
75%	2.800000	2.875000	0.437500
1.950000			
max	3.880000	5.080000	0.660000
3.580000			

	Proanthocyanins	Color intensity	Hue
\			
count	178.000000	178.000000	178.000000
mean	5.058090	0.957449	2.611685
std	2.318286	0.228572	0.709990
min	1.280000	0.480000	1.270000
25%	3.220000	0.782500	1.937500
50%	4.690000	0.965000	2.780000
75%	6.200000	1.120000	3.170000
max	13.000000	1.710000	4.000000

	OD280/OD315 of diluted wines	Proline
count	178.000000	178.000000
mean	746.893258	0.938202
std	314.907474	0.775035
min	278.000000	0.000000
25%	500.500000	0.000000
50%	673.500000	1.000000
75%	985.000000	2.000000
max	1680.000000	2.000000

In [60]:

```
#One-hot encode
df = pd.get_dummies(df)
df.iloc[:,5:].head(5)
```

Out[60]:

	Magnesium	Total phenols	Flavanoids	Nonflavanoid phenols	Proanthocyanin
0	2.80	3.06	0.28	2.29	5.64
1	2.65	2.76	0.26	1.28	4.38
2	2.80	3.24	0.30	2.81	5.68
3	3.85	3.49	0.24	2.18	7.80
4	2.80	2.69	0.39	1.82	4.32

In [88]:

```
#splitting dataset
X_train, X_test, y_train, y_test = train_test_split(wine.data, wine.target,
                                                    test_size =
                                                    .20,random_state = 42)
print("Split Shape")
print(X_train.shape)
print(X_test.shape)
print(y_train.shape)
print(y_test.shape)
print()
feature_list = list(df.columns)
```

Split Shape
(142, 13)
(36, 13)
(142,)
(36,)

In [79]:

```
#Linear Regression Model  
print("==Linear Regression model accuracy scores==")  
lm = LinearRegression()  
model = lm.fit(X_train, y_train)  
predictions = model.predict(X_test)
```

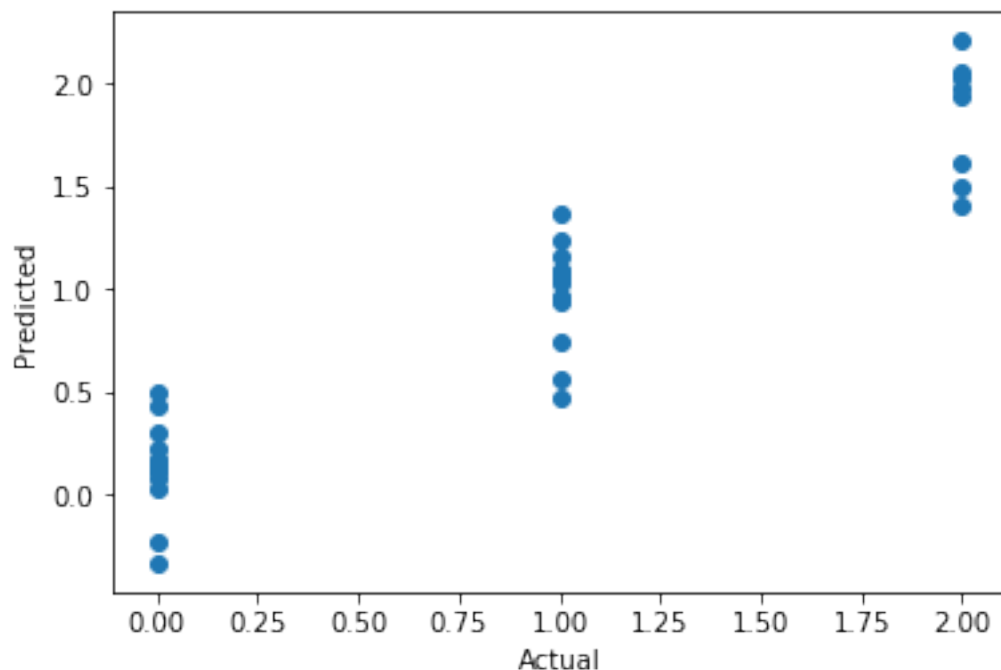
```
==Linear Regression model accuracy scores==  
Accuracy on training set:0.903  
Accuracy on test set:0.883
```

In [6]:

```
#Plotting Actual vs Predicted  
plt.scatter(y_test, predictions)  
plt.xlabel("Actual")  
plt.ylabel("Predicted")
```

Out[6]:

```
Text(0,0.5,'Predicted')
```



In [91]:

```
#Linear Model training and testing stats
print('# of Training data points for (LM): %d' % X_train.shape[0])
print('# of Testing data points for (LM): %d' % X_test.shape[0])
print()
print("Accuracy on training set (for LM): {:.3f}".format(lm.score(X_train, y_train)))
print("Accuracy on test set (for LM): {:.3f}".format(lm.score(X_test, y_test)))
print()
print('Class labels:', np.unique(wine.target))
print('Misclassified samples: %d' % (y_test != predictions).sum()))
print()
errors = abs(predictions - y_test)
print("Mean absolute error:{:.3f}".format(np.mean(errors)))
```

of Training data points for (LM): 142

of Testing data points for (LM): 36

Accuracy on training set (for LM): 0.903

Accuracy on test set (for LM): 0.883

Class labels: [0 1 2]

Misclassified samples: 36

Mean absolute error:0.203

In [166]:

```
#Building Random Forest
```

```
forest = RandomForestClassifier(criterion='entropy',  
                               n_estimators = 50,  
                               min_samples_split = 20,  
                               min_samples_leaf = 15,  
                               max_features = 'sqrt',  
                               max_leaf_nodes = 12,  
                               random_state = 0)  
  
forest.fit(X_train, y_train)
```

Out[166]:

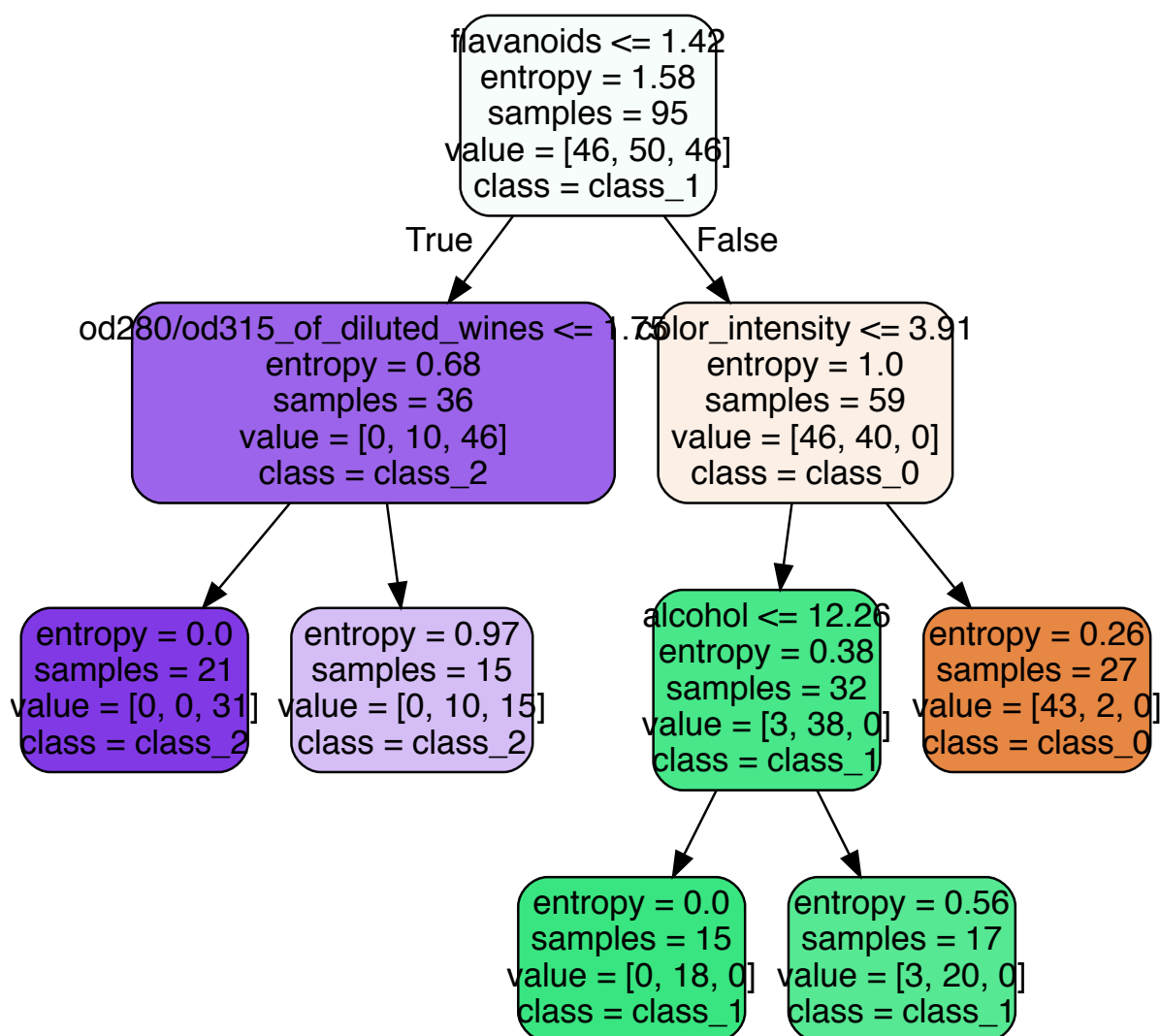
```
RandomForestClassifier(bootstrap=True, class_weight=  
None, criterion='entropy',  
                      max_depth=None, max_features='sqrt', max  
_leaf_nodes=12,  
                      min_impurity_decrease=0.0, min_impurity_  
split=None,  
                      min_samples_leaf=15, min_samples_split=2  
0,  
                      min_weight_fraction_leaf=0.0, n_estimato  
rs=50, n_jobs=1,  
                      oob_score=False, random_state=0, verbose  
=0, warm_start=False)
```

In [167]:

```
#Display Random Forest
```

```
estimator = forest.estimators_[1]  
export_graphviz(estimator, out_file = "rftree.dot",  
                feature_names = wine.feature_names,  
                class_names = wine.target_names,  
                rounded = True, proportion = False,  
                precision = 2, filled = True)
```

```
with open("rftree.dot") as f:  
    dot_graph = f.read()  
display(graphviz.Source(dot_graph))
```



In [114]:

```
#Random Forest results
print("Feature importance (Random Forest):\n{}".format(forest.feature_importances_))
print()

y_pred = forest.predict(X_test)
print("Accuracy on training set (Random Forest): {:.3f}".format(forest.score(X_train, y_train)))
print("Accuracy on test set (Random Forest): {:.3f}".format(forest.score(X_test, y_test)))
```

```
Feature importance (Random Forest):
[0.08645207 0.02298207 0.00459577 0.01097899 0.01080
313 0.07185554
 0.21358647 0.0217961 0.02726296 0.17818388 0.07486
819 0.16468787
 0.11194696]
```

```
Accuracy on training set (Random Forest): 0.986
```

```
Accuracy on test set (Random Forest): 0.917
```

In [138]:

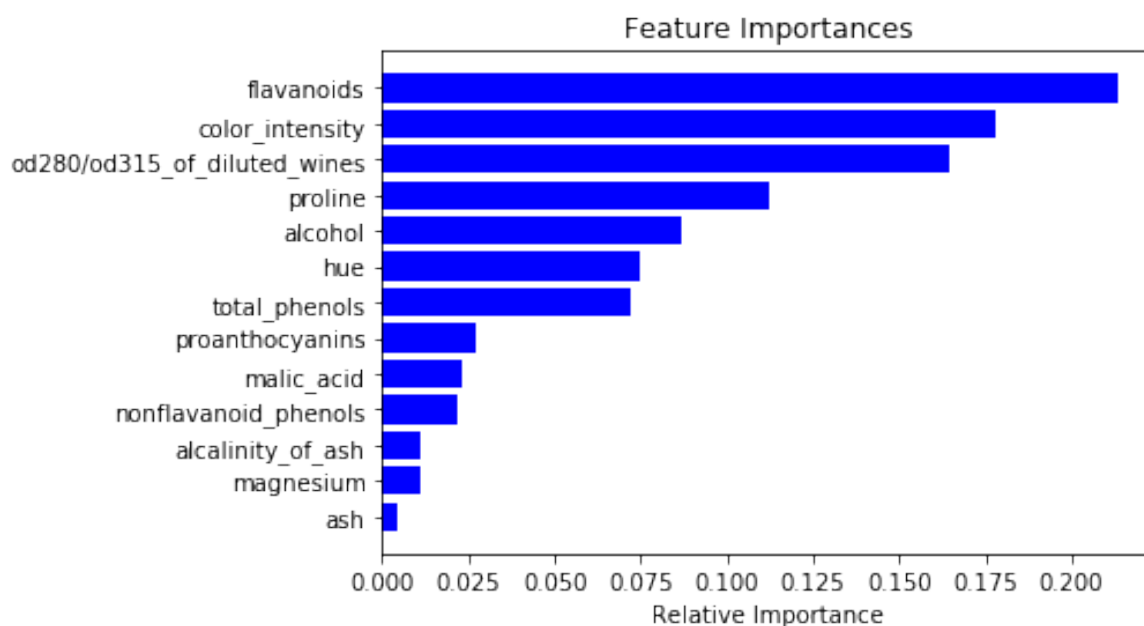
```
#Organizing feature importances for Random Forest
importances = forest.feature_importances_
#sorted indices
indices = np.argsort(importances)[::-1]

for f in range(X_train.shape[1]):
    print("%2d) %-*s %f" % (f + 1, 30,
                            X.columns.values[indices[f]],
                            importances[indices[f]]))
```

1) Flavanoids	0.213586
2) Color intensity	0.178184
3) OD280/OD315 of diluted wines	0.164688
4) Proline	0.111947
5) Alcohol	0.086452
6) Hue	0.074868
7) Total phenols	0.071856
8) Proanthocyanins	0.027263
9) Malic acid	0.022982
10) Nonflavanoid phenols	0.021796
11) Alcalinity of ash	0.010979
12) Magnesium	0.010803
13) Ash	0.004596

In [139]:

```
print()
features = wine['feature_names']
indices = np.argsort(importances)
plt.title('Feature Importances')
plt.barh(range(len(indices)), importances[indices], color='b', align='center')
plt.yticks(range(len(indices)), [features[i] for i in indices])
plt.xlabel('Relative Importance')
plt.show()
```



In [169]:

```
cumulative_importances = np.cumsum(importances)
print('Number of features for 95% importance:', np.where(cumulative_importances > 0.95)[0][0]+1)
#Cross Validation
X_train, X_test, y_train, y_test = train_test_split(wine.data, wine.target, test_size = .20, random_state = 0)
forest_cv_score = cross_val_score(forest, wine.data, wine.target, cv=10)
```

Number of features for 95% importance: 13

In [189]:

```
rf = RandomForestClassifier()
pp.pprint(rf.get_params())
print()

n_estimators = [int(x) for x in np.linspace(start = 200, stop =
2000, num = 10)]
max_features = ['auto', 'sqrt']
max_depth = [int(x) for x in np.linspace(10, 110, num = 11)]
max_depth.append(None)
min_samples_split = [2, 5, 10]
min_samples_leaf = [1, 2, 4]
bootstrap = [True, False]# Create the random grid
random_grid = {'n_estimators': n_estimators,
                'max_features': max_features,
                'max_depth': max_depth,
                'min_samples_split': min_samples_split,
                'min_samples_leaf': min_samples_leaf,
                'bootstrap': bootstrap}

pp.pprint(random_grid)
print()

rf_random = RandomizedSearchCV(estimator = rf,
                               param_distributions = random_grid,
                               n_iter = 10,
                               cv = 3,
                               verbose = 2,
                               random_state = 42,
                               n_jobs = -1)
rf_random.fit(X_train, y_train)
```

```
{  'bootstrap': True,
    'class_weight': None,
    'criterion': 'gini',
    'max_depth': None,
    'max_features': 'auto',
    'max_leaf_nodes': None,
    'min_impurity_decrease': 0.0,
    'min_impurity_split': None,
    'min_samples_leaf': 1,
    'min_samples_split': 2,
    'min_weight_fraction_leaf': 0.0,
    'n_estimators': 10,
```

```

'n_jobs': 1,
'oob_score': False,
'random_state': None,
'verbose': 0,
'warm_start': False}

{
  'bootstrap': [True, False],
  'max_depth': [10, 20, 30, 40, 50, 60, 70, 80, 90
, 100, 110, None],
  'max_features': ['auto', 'sqrt'],
  'min_samples_leaf': [1, 2, 4],
  'min_samples_split': [2, 5, 10],
  'n_estimators': [200, 400, 600, 800, 1000, 1200,
1400, 1600, 1800, 2000]}

```

Fitting 3 folds for each of 10 candidates, totalling 30 fits

```
[CV] n_estimators=200, min_samples_split=10, min_sam
ples_leaf=2, max_features=sqrt, max_depth=50, bootst
rap=True
```

```
[CV] n_estimators=200, min_samples_split=10, min_sam
ples_leaf=2, max_features=sqrt, max_depth=50, bootst
rap=True
```

```
[CV] n_estimators=200, min_samples_split=10, min_sam
ples_leaf=2, max_features=sqrt, max_depth=50, bootst
rap=True
```

```
[CV] n_estimators=600, min_samples_split=10, min_sam
ples_leaf=4, max_features=sqrt, max_depth=90, bootst
rap=False
```

```
[CV] n_estimators=200, min_samples_split=10, min_sa
mples_leaf=2, max_features=sqrt, max_depth=50, boots
trap=True, total= 0.6s
```

```
[CV] n_estimators=600, min_samples_split=10, min_sam
ples_leaf=4, max_features=sqrt, max_depth=90, bootst
rap=False
```

```
[CV] n_estimators=200, min_samples_split=10, min_sa
mples_leaf=2, max_features=sqrt, max_depth=50, boots
trap=True, total= 0.6s
```

```
[CV] n_estimators=200, min_samples_split=10, min_sa
mples_leaf=2, max_features=sqrt, max_depth=50, boots
trap=True, total= 0.6s
```

```
[CV] n_estimators=600, min_samples_split=10, min_sam
ples_leaf=4, max_features=sqrt, max_depth=90, bootst
rap=False
```

```
[CV] n_estimators=600, min_samples_split=2, min_samp
```

```
les_leaf=2, max_features=auto, max_depth=60, bootstrap=False
[CV] n_estimators=600, min_samples_split=10, min_samples_leaf=4, max_features=sqrt, max_depth=90, bootstrap=False, total= 1.9s
[CV] n_estimators=600, min_samples_split=2, min_samples_leaf=2, max_features=auto, max_depth=60, bootstrap=False
[CV] n_estimators=600, min_samples_split=10, min_samples_leaf=4, max_features=sqrt, max_depth=90, bootstrap=False, total= 1.8s
[CV] n_estimators=600, min_samples_split=2, min_samples_leaf=2, max_features=auto, max_depth=60, bootstrap=False
[CV] n_estimators=600, min_samples_split=10, min_samples_leaf=4, max_features=sqrt, max_depth=90, bootstrap=False, total= 1.9s
[CV] n_estimators=1400, min_samples_split=5, min_samples_leaf=1, max_features=sqrt, max_depth=30, bootstrap=True
[CV] n_estimators=600, min_samples_split=2, min_samples_leaf=2, max_features=auto, max_depth=60, bootstrap=False, total= 1.8s
[CV] n_estimators=1400, min_samples_split=5, min_samples_leaf=1, max_features=sqrt, max_depth=30, bootstrap=True
[CV] n_estimators=600, min_samples_split=2, min_samples_leaf=2, max_features=auto, max_depth=60, bootstrap=False, total= 1.9s
[CV] n_estimators=1400, min_samples_split=5, min_samples_leaf=1, max_features=sqrt, max_depth=30, bootstrap=True
[CV] n_estimators=600, min_samples_split=2, min_samples_leaf=2, max_features=auto, max_depth=60, bootstrap=False, total= 1.8s
[CV] n_estimators=1000, min_samples_split=10, min_samples_leaf=1, max_features=auto, max_depth=80, bootstrap=False
[CV] n_estimators=1400, min_samples_split=5, min_samples_leaf=1, max_features=sqrt, max_depth=30, bootstrap=True, total= 3.9s
[CV] n_estimators=1000, min_samples_split=10, min_samples_leaf=1, max_features=auto, max_depth=80, bootstrap=False
[CV] n_estimators=1400, min_samples_split=5, min_sa
```


mple_leaf=1, max_features=sqrt, max_depth=30, bootstrap=True, total= 3.9s
[CV] n_estimators=1000, min_samples_split=10, min_samples_leaf=1, max_features=auto, max_depth=80, bootstrap=False
[CV] n_estimators=1000, min_samples_split=10, min_samples_leaf=1, max_features=auto, max_depth=80, bootstrap=False, total= 2.6s
[CV] n_estimators=400, min_samples_split=10, min_samples_leaf=1, max_features=sqrt, max_depth=60, bootstrap=False
[CV] n_estimators=1400, min_samples_split=5, min_samples_leaf=1, max_features=sqrt, max_depth=30, bootstrap=True, total= 3.8s
[CV] n_estimators=400, min_samples_split=10, min_samples_leaf=1, max_features=sqrt, max_depth=60, bootstrap=False
[CV] n_estimators=400, min_samples_split=10, min_samples_leaf=1, max_features=sqrt, max_depth=60, bootstrap=False, total= 1.2s
[CV] n_estimators=400, min_samples_split=10, min_samples_leaf=1, max_features=sqrt, max_depth=60, bootstrap=False
[CV] n_estimators=400, min_samples_split=10, min_samples_leaf=1, max_features=sqrt, max_depth=60, bootstrap=False, total= 1.1s
[CV] n_estimators=2000, min_samples_split=2, min_samples_leaf=2, max_features=auto, max_depth=50, bootstrap=False
[CV] n_estimators=400, min_samples_split=10, min_samples_leaf=1, max_features=sqrt, max_depth=60, bootstrap=False, total= 1.0s
[CV] n_estimators=2000, min_samples_split=2, min_samples_leaf=2, max_features=auto, max_depth=50, bootstrap=False
[CV] n_estimators=1000, min_samples_split=10, min_samples_leaf=1, max_features=auto, max_depth=80, bootstrap=False, total= 2.8s
[CV] n_estimators=2000, min_samples_split=2, min_samples_leaf=2, max_features=auto, max_depth=50, bootstrap=False
[CV] n_estimators=1000, min_samples_split=10, min_samples_leaf=1, max_features=auto, max_depth=80, bootstrap=False, total= 2.8s
[CV] n_estimators=200, min_samples_split=5, min_samp

les_leaf=2, max_features=sqrt, max_depth=10, bootstrap=True

[CV] n_estimators=200, min_samples_split=5, min_samples_leaf=2, max_features=sqrt, max_depth=10, bootstrap=True, total= 0.5s

[CV] n_estimators=200, min_samples_split=5, min_samples_leaf=2, max_features=sqrt, max_depth=10, bootstrap=True

[CV] n_estimators=200, min_samples_split=5, min_samples_leaf=2, max_features=sqrt, max_depth=10, bootstrap=True, total= 0.6s

[CV] n_estimators=200, min_samples_split=5, min_samples_leaf=2, max_features=sqrt, max_depth=10, bootstrap=True

[CV] n_estimators=200, min_samples_split=5, min_samples_leaf=2, max_features=sqrt, max_depth=10, bootstrap=True, total= 0.6s

[CV] n_estimators=1200, min_samples_split=2, min_samples_leaf=4, max_features=auto, max_depth=100, bootstrap=True

[CV] n_estimators=2000, min_samples_split=2, min_samples_leaf=2, max_features=auto, max_depth=50, bootstrap=False, total= 5.8s

[CV] n_estimators=1200, min_samples_split=2, min_samples_leaf=4, max_features=auto, max_depth=100, bootstrap=True

[CV] n_estimators=1200, min_samples_split=2, min_samples_leaf=4, max_features=auto, max_depth=100, bootstrap=True, total= 3.6s

[CV] n_estimators=1200, min_samples_split=2, min_samples_leaf=4, max_features=auto, max_depth=100, bootstrap=True

[CV] n_estimators=2000, min_samples_split=2, min_samples_leaf=2, max_features=auto, max_depth=50, bootstrap=False, total= 5.8s

[CV] n_estimators=2000, min_samples_split=5, min_samples_leaf=2, max_features=auto, max_depth=50, bootstrap=True

[CV] n_estimators=2000, min_samples_split=2, min_samples_leaf=2, max_features=auto, max_depth=50, bootstrap=False, total= 5.9s

[CV] n_estimators=2000, min_samples_split=5, min_samples_leaf=2, max_features=auto, max_depth=50, bootstrap=True

[CV] n_estimators=1200, min_samples_split=2, min_sa

```
mples_leaf=4, max_features=auto, max_depth=100, boot
strap=True, total=    3.4s
[CV] n_estimators=2000, min_samples_split=5, min_sam
ples_leaf=2, max_features=auto, max_depth=50, bootst
rap=True
[CV] n_estimators=1200, min_samples_split=2, min_sa
mples_leaf=4, max_features=auto, max_depth=100, boot
strap=True, total=    3.4s
[CV] n_estimators=2000, min_samples_split=5, min_sa
mples_leaf=2, max_features=auto, max_depth=50, boots
trap=True, total=    5.2s
[CV] n_estimators=2000, min_samples_split=5, min_sa
mples_leaf=2, max_features=auto, max_depth=50, boots
trap=True, total=    5.1s
[CV] n_estimators=2000, min_samples_split=5, min_sa
mples_leaf=2, max_features=auto, max_depth=50, boots
trap=True, total=    3.6s
```

```
[Parallel(n_jobs=-1)]: Done 30 out of 30 | elapsed
: 22.6s finished
```

Out[189]:

```
RandomizedSearchCV(cv=3, error_score='raise',
                   estimator=RandomForestClassifier(bootstrap
=True, class_weight=None, criterion='gini',
                   max_depth=None, max_features='auto', max
_leaf_nodes=None,
                   min_impurity_decrease=0.0, min_impurity_
split=None,
                   min_samples_leaf=1, min_samples_split=2,
                   min_weight_fraction_leaf=0.0, n_estimato
rs=10, n_jobs=1,
                   oob_score=False, random_state=None, verb
ose=0,
                   warm_start=False),
                   fit_params=None, iid=True, n_iter=10, n_jo
bs=-1,
                   param_distributions={'n_estimators': [200,
400, 600, 800, 1000, 1200, 1400, 1600, 1800, 2000],
'max_features': ['auto', 'sqrt'], 'max_depth': [10,
20, 30, 40, 50, 60, 70, 80, 90, 100, 110, None], 'mi
n_samples_split': [2, 5, 10], 'min_samples_leaf': [1
, 2, 4], 'bootstrap': [True, False]},
                   pre_dispatch='2*n_jobs', random_state=42,
refit=True,
                   return_train_score='warn', scoring=None, v
erbose=2)
```

In [190]:

```
rf_random.best_params_
```

Out[190]:

```
{'bootstrap': True,
 'max_depth': 10,
 'max_features': 'sqrt',
 'min_samples_leaf': 2,
 'min_samples_split': 5,
 'n_estimators': 200}
```

In [191]:

```
predictions = rf_random.predict(X_test)
print("Accuracy on training set (RF2): {:.3f}".format(rf_random
.score(X_train, y_train)))
print("Accuracy on test set (RF2): {:.3f}".format(rf_random.sco
re(X_test, y_test)))
print()
print('Class labels:', np.unique(wine.target))
print('Misclassified samples: %d' % (y_test != predictions).sum(
))
print()
errors = abs(predictions - y_test)
print("Mean absolute error:{:.3f}".format(np.mean(errors)))
```

Accuracy on training set (for LM): 1.000

Accuracy on test set (for LM): 0.933

Class labels: [0 1 2]

Misclassified samples: 3

Mean absolute error:0.067

In [195]:

```
#Create grid based on random search
param_grid = {
'bootstrap': [True],
'max_depth': [80, 90, 100, 110],
'max_features': [2, 3],
'min_samples_leaf': [3, 4, 5],
'min_samples_split': [8, 10, 12],
'n_estimators': [100, 200, 300, 1000]
}

rf = RandomForestClassifier()
grid_search = GridSearchCV(estimator = rf,
                           param_grid = param_grid,
                           cv = 3, n_jobs = -1, verbose = 2)
grid_search.fit(X_train, y_train)
```

Fitting 3 folds for each of 288 candidates, totallin
g 864 fits

[CV] bootstrap=True, max_depth=80, max_features=2, m

in_samples_leaf=3, min_samples_split=8, n_estimators=100
[CV] bootstrap=True, max_depth=80, max_features=2, min_samples_leaf=3, min_samples_split=8, n_estimators=100
[CV] bootstrap=True, max_depth=80, max_features=2, min_samples_leaf=3, min_samples_split=8, n_estimators=100
[CV] bootstrap=True, max_depth=80, max_features=2, min_samples_leaf=3, min_samples_split=8, n_estimators=200
[CV] bootstrap=True, max_depth=80, max_features=2, min_samples_leaf=3, min_samples_split=8, n_estimators=100, total= 0.3s
[CV] bootstrap=True, max_depth=80, max_features=2, min_samples_leaf=3, min_samples_split=8, n_estimators=200
[CV] bootstrap=True, max_depth=80, max_features=2, min_samples_leaf=3, min_samples_split=8, n_estimators=100, total= 0.3s
[CV] bootstrap=True, max_depth=80, max_features=2, min_samples_leaf=3, min_samples_split=8, n_estimators=100, total= 0.3s
[CV] bootstrap=True, max_depth=80, max_features=2, min_samples_leaf=3, min_samples_split=8, n_estimators=200
[CV] bootstrap=True, max_depth=80, max_features=2, min_samples_leaf=3, min_samples_split=8, n_estimators=300
[CV] bootstrap=True, max_depth=80, max_features=2, min_samples_leaf=3, min_samples_split=8, n_estimators=200, total= 0.7s
[CV] bootstrap=True, max_depth=80, max_features=2, min_samples_leaf=3, min_samples_split=8, n_estimators=300
[CV] bootstrap=True, max_depth=80, max_features=2, min_samples_leaf=3, min_samples_split=8, n_estimators=200, total= 0.6s
[CV] bootstrap=True, max_depth=80, max_features=2, min_samples_leaf=3, min_samples_split=8, n_estimators=300
[CV] bootstrap=True, max_depth=80, max_features=2, min_samples_leaf=3, min_samples_split=8, n_estimators=200, total= 0.6s
[CV] bootstrap=True, max_depth=80, max_features=2, min_samples_leaf=3, min_samples_split=8, n_estimators=300

[CV] bootstrap=True, max_depth=80, max_features=2,
min_samples_leaf=3, min_samples_split=8, n_estimators=1000, total= 3.2s

[CV] bootstrap=True, max_depth=80, max_features=2, min_samples_leaf=3, min_samples_split=10, n_estimators=200

[CV] bootstrap=True, max_depth=80, max_features=2, min_samples_leaf=3, min_samples_split=10, n_estimators=200, total= 0.8s

[CV] bootstrap=True, max_depth=80, max_features=2, min_samples_leaf=3, min_samples_split=10, n_estimators=300

[CV] bootstrap=True, max_depth=80, max_features=2, min_samples_leaf=3, min_samples_split=8, n_estimators=1000, total= 3.2s

[CV] bootstrap=True, max_depth=80, max_features=2, min_samples_leaf=3, min_samples_split=10, n_estimators=300

[CV] bootstrap=True, max_depth=80, max_features=2, min_samples_leaf=3, min_samples_split=8, n_estimators=1000, total= 3.1s

[CV] bootstrap=True, max_depth=80, max_features=2, min_samples_leaf=3, min_samples_split=10, n_estimators=300

[CV] bootstrap=True, max_depth=80, max_features=2, min_samples_leaf=3, min_samples_split=10, n_estimators=200, total= 0.6s

[CV] bootstrap=True, max_depth=80, max_features=2, min_samples_leaf=3, min_samples_split=10, n_estimators=1000

[CV] bootstrap=True, max_depth=80, max_features=2, min_samples_leaf=3, min_samples_split=10, n_estimators=300, total= 0.8s

[CV] bootstrap=True, max_depth=80, max_features=2, min_samples_leaf=3, min_samples_split=10, n_estimators=1000

[CV] bootstrap=True, max_depth=80, max_features=2, min_samples_leaf=3, min_samples_split=10, n_estimators=300, total= 0.8s

[CV] bootstrap=True, max_depth=80, max_features=2, min_samples_leaf=3, min_samples_split=10, n_estimators=1000

[CV] bootstrap=True, max_depth=80, max_features=2, min_samples_leaf=3, min_samples_split=10, n_estimators=1000

rs=300, total= 0.8s
[CV] bootstrap=True, max_depth=80, max_features=2, min_samples_leaf=3, min_samples_split=12, n_estimators=100
[CV] bootstrap=True, max_depth=80, max_features=2, min_samples_leaf=3, min_samples_split=12, n_estimators=100, total= 0.2s
[CV] bootstrap=True, max_depth=80, max_features=2, min_samples_leaf=3, min_samples_split=12, n_estimators=100
[CV] bootstrap=True, max_depth=80, max_features=2, min_samples_leaf=3, min_samples_split=12, n_estimators=100, total= 0.2s
[CV] bootstrap=True, max_depth=80, max_features=2, min_samples_leaf=3, min_samples_split=12, n_estimators=100
[CV] bootstrap=True, max_depth=80, max_features=2, min_samples_leaf=3, min_samples_split=12, n_estimators=100, total= 0.3s
[CV] bootstrap=True, max_depth=80, max_features=2, min_samples_leaf=3, min_samples_split=12, n_estimators=200
[CV] bootstrap=True, max_depth=80, max_features=2, min_samples_leaf=3, min_samples_split=12, n_estimators=200, total= 0.5s
[CV] bootstrap=True, max_depth=80, max_features=2, min_samples_leaf=3, min_samples_split=12, n_estimators=200
[CV] bootstrap=True, max_depth=80, max_features=2, min_samples_leaf=3, min_samples_split=10, n_estimators=1000, total= 2.6s
[CV] bootstrap=True, max_depth=80, max_features=2, min_samples_leaf=3, min_samples_split=12, n_estimators=200
[CV] bootstrap=True, max_depth=80, max_features=2, min_samples_leaf=3, min_samples_split=12, n_estimators=200, total= 0.6s
[CV] bootstrap=True, max_depth=80, max_features=2, min_samples_leaf=3, min_samples_split=12, n_estimators=300
[CV] bootstrap=True, max_depth=80, max_features=2, min_samples_leaf=3, min_samples_split=10, n_estimators=1000, total= 2.5s
[CV] bootstrap=True, max_depth=80, max_features=2, min_samples_leaf=3, min_samples_split=12, n_estimators

```
s=300
[CV] bootstrap=True, max_depth=80, max_features=2,
min_samples_leaf=3, min_samples_split=10, n_estimators=1000, total= 2.6s
[CV] bootstrap=True, max_depth=80, max_features=2, min_samples_leaf=3, min_samples_split=12, n_estimators=300
[CV] bootstrap=True, max_depth=80, max_features=2, min_samples_leaf=3, min_samples_split=12, n_estimators=200, total= 0.5s
[CV] bootstrap=True, max_depth=80, max_features=2, min_samples_leaf=3, min_samples_split=12, n_estimators=1000
[CV] bootstrap=True, max_depth=80, max_features=2, min_samples_leaf=3, min_samples_split=12, n_estimators=300, total= 0.8s
[CV] bootstrap=True, max_depth=80, max_features=2, min_samples_leaf=3, min_samples_split=12, n_estimators=1000
[CV] bootstrap=True, max_depth=80, max_features=2, min_samples_leaf=3, min_samples_split=12, n_estimators=300, total= 0.8s
[CV] bootstrap=True, max_depth=80, max_features=2, min_samples_leaf=3, min_samples_split=12, n_estimators=1000
[CV] bootstrap=True, max_depth=80, max_features=2, min_samples_leaf=3, min_samples_split=12, n_estimators=300, total= 0.8s
[CV] bootstrap=True, max_depth=80, max_features=2, min_samples_leaf=4, min_samples_split=8, n_estimators=100
[Parallel(n_jobs=-1)]: Done 33 tasks | elapsed: 9.1s
[CV] bootstrap=True, max_depth=80, max_features=2, min_samples_leaf=4, min_samples_split=8, n_estimators=100, total= 0.3s
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[CV] bootstrap=True, max_depth=80, max_features=2, min_samples_leaf=4, min_samples_split=8, n_estimators=100, total= 0.2s
[CV] bootstrap=True, max_depth=80, max_features=2, m
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in_samples_leaf=4, min_samples_split=8, n_estimators=100
[CV] bootstrap=True, max_depth=80, max_features=2, min_samples_leaf=4, min_samples_split=8, n_estimators=100, total= 0.2s
[CV] bootstrap=True, max_depth=80, max_features=2, min_samples_leaf=4, min_samples_split=8, n_estimators=200
[CV] bootstrap=True, max_depth=80, max_features=2, min_samples_leaf=4, min_samples_split=8, n_estimators=200, total= 0.5s
[CV] bootstrap=True, max_depth=80, max_features=2, min_samples_leaf=4, min_samples_split=8, n_estimators=200
[CV] bootstrap=True, max_depth=80, max_features=2, min_samples_leaf=4, min_samples_split=8, n_estimators=200, total= 0.5s
[CV] bootstrap=True, max_depth=80, max_features=2, min_samples_leaf=4, min_samples_split=8, n_estimators=200
[CV] bootstrap=True, max_depth=80, max_features=2, min_samples_leaf=3, min_samples_split=12, n_estimators=1000, total= 2.5s
[CV] bootstrap=True, max_depth=80, max_features=2, min_samples_leaf=4, min_samples_split=8, n_estimators=300
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[CV] bootstrap=True, max_depth=80, max_features=2, min_samples_leaf=4, min_samples_split=8, n_estimators=300
[CV] bootstrap=True, max_depth=80, max_features=2, min_samples_leaf=4, min_samples_split=8, n_estimators=200, total= 0.5s
[CV] bootstrap=True, max_depth=80, max_features=2, min_samples_leaf=4, min_samples_split=8, n_estimators=1000
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s=300, total= 0.8s
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=1000
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s=300, total= 0.8s
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=1000
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min_samples_leaf=4, min_samples_split=8, n_estimator
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s=100
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min_samples_leaf=4, min_samples_split=10, n_estimato
rs=100, total= 0.2s
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in_samples_leaf=4, min_samples_split=10, n_estimator
s=100
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s=100
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rs=100, total= 0.2s
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s=200
[CV] bootstrap=True, max_depth=80, max_features=2,
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rs=200, total= 0.5s
[CV] bootstrap=True, max_depth=80, max_features=2, m
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s=200
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min_samples_leaf=4, min_samples_split=10, n_estimato
rs=200, total= 0.6s

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[CV] bootstrap=True, max_depth=80, max_features=2, min_samples_leaf=4, min_samples_split=8, n_estimators=1000, total= 2.7s

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rs=200, total= 0.5s
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[CV] bootstrap=True, max_depth=80, max_features=2, min_samples_leaf=4, min_samples_split=12, n_estimators=300, total= 0.8s
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[CV] bootstrap=True, max_depth=80, max_features=2, m

in_samples_leaf=5, min_samples_split=10, n_estimators=300

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[CV] bootstrap=True, max_depth=80, max_features=2, min_samples_leaf=5, min_samples_split=10, n_estimators=1000, total= 2.4s

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=200

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[CV] bootstrap=True, max_depth=80, max_features=3, min_samples_leaf=3, min_samples_split=8, n_estimators=1000

[CV] bootstrap=True, max_depth=80, max_features=3, min_samples_leaf=3, min_samples_split=8, n_estimators=300, total= 0.8s

[CV] bootstrap=True, max_depth=80, max_features=3, min_samples_leaf=3, min_samples_split=8, n_estimators=1000

[CV] bootstrap=True, max_depth=80, max_features=3, min_samples_leaf=3, min_samples_split=8, n_estimators=300, total= 0.8s

[CV] bootstrap=True, max_depth=80, max_features=3, min_samples_leaf=3, min_samples_split=8, n_estimators=1000

[CV] bootstrap=True, max_depth=80, max_features=3, min_samples_leaf=3, min_samples_split=8, n_estimators=1000

s=300, total= 0.8s
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[CV] bootstrap=True, max_depth=80, max_features=3, min_samples_leaf=3, min_samples_split=10, n_estimators=100, total= 0.2s
[CV] bootstrap=True, max_depth=80, max_features=3, min_samples_leaf=3, min_samples_split=10, n_estimators=100
[CV] bootstrap=True, max_depth=80, max_features=3, min_samples_leaf=3, min_samples_split=10, n_estimators=100, total= 0.2s
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[CV] bootstrap=True, max_depth=80, max_features=3, min_samples_leaf=3, min_samples_split=10, n_estimators=100, total= 0.3s
[CV] bootstrap=True, max_depth=80, max_features=3, min_samples_leaf=3, min_samples_split=10, n_estimators=200
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[CV] bootstrap=True, max_depth=80, max_features=3, min_samples_leaf=3, min_samples_split=10, n_estimators=200
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[CV] bootstrap=True, max_depth=80, max_features=3, m

in_samples_leaf=3, min_samples_split=10, n_estimators=300

[CV] bootstrap=True, max_depth=80, max_features=3, min_samples_leaf=3, min_samples_split=10, n_estimators=200, total= 0.5s

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[CV] bootstrap=True, max_depth=80, max_features=3, min_samples_leaf=3, min_samples_split=8, n_estimators=1000, total= 2.5s

[CV] bootstrap=True, max_depth=80, max_features=3, min_samples_leaf=3, min_samples_split=10, n_estimators=1000

[CV] bootstrap=True, max_depth=80, max_features=3, min_samples_leaf=3, min_samples_split=10, n_estimators=300, total= 0.9s

[CV] bootstrap=True, max_depth=80, max_features=3, min_samples_leaf=3, min_samples_split=10, n_estimators=1000

[CV] bootstrap=True, max_depth=80, max_features=3, min_samples_leaf=3, min_samples_split=10, n_estimators=300, total= 0.8s

[CV] bootstrap=True, max_depth=80, max_features=3, min_samples_leaf=3, min_samples_split=10, n_estimators=1000

[CV] bootstrap=True, max_depth=80, max_features=3, min_samples_leaf=3, min_samples_split=10, n_estimators=300, total= 0.9s

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[CV] bootstrap=True, max_depth=80, max_features=3, min_samples_leaf=3, min_samples_split=12, n_estimators=100, total= 0.2s

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[CV] bootstrap=True, max_depth=80, max_features=3, min_samples_leaf=3, min_samples_split=12, n_estimators=100, total= 0.2s

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[CV] bootstrap=True, max_depth=80, max_features=3, min_samples_leaf=4, min_samples_split=8, n_estimators=200

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min_samples_leaf=4, min_samples_split=8, n_estimator
s=200, total= 0.5s

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in_samples_leaf=4, min_samples_split=8, n_estimators
=300

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min_samples_leaf=3, min_samples_split=12, n_estimato
rs=1000, total= 2.6s

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=300

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min_samples_leaf=4, min_samples_split=8, n_estimator
s=200, total= 0.5s

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=300

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min_samples_leaf=3, min_samples_split=12, n_estimato
rs=1000, total= 2.5s

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in_samples_leaf=4, min_samples_split=8, n_estimators
=1000

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min_samples_leaf=4, min_samples_split=8, n_estimator
s=300, total= 0.8s

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=1000

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s=300, total= 0.8s

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=1000

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min_samples_leaf=4, min_samples_split=8, n_estimator
s=300, total= 0.8s

[CV] bootstrap=True, max_depth=80, max_features=3, m
in_samples_leaf=4, min_samples_split=10, n_estimator
s=100

[CV] bootstrap=True, max_depth=80, max_features=3,
min_samples_leaf=4, min_samples_split=10, n_estimato

```
rs=100, total=    0.2s
[CV] bootstrap=True, max_depth=80, max_features=3, m
in_samples_leaf=4, min_samples_split=10, n_estimator
s=100

[Parallel(n_jobs=-1)]: Done 154 tasks      | elapsed
:    41.8s

[CV]  bootstrap=True, max_depth=80, max_features=3,
min_samples_leaf=4, min_samples_split=10, n_estimato
rs=100, total=    0.3s
[CV] bootstrap=True, max_depth=80, max_features=3, m
in_samples_leaf=4, min_samples_split=10, n_estimator
s=100
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min_samples_leaf=4, min_samples_split=10, n_estimato
rs=100, total=    0.2s
[CV] bootstrap=True, max_depth=80, max_features=3, m
in_samples_leaf=4, min_samples_split=10, n_estimator
s=200
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min_samples_leaf=4, min_samples_split=10, n_estimato
rs=200, total=    0.5s
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in_samples_leaf=4, min_samples_split=10, n_estimator
s=200
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min_samples_leaf=4, min_samples_split=10, n_estimato
rs=200, total=    0.5s
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s=200
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s=1000, total=    2.5s
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s=300
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min_samples_leaf=4, min_samples_split=8, n_estimator
s=1000, total=    2.4s
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s=300
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min_samples_leaf=4, min_samples_split=10, n_estimators=200, total= 0.5s
[CV] bootstrap=True, max_depth=80, max_features=3, min_samples_leaf=4, min_samples_split=10, n_estimators=300
[CV] bootstrap=True, max_depth=80, max_features=3, min_samples_leaf=4, min_samples_split=8, n_estimators=1000, total= 2.5s
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[CV] bootstrap=True, max_depth=80, max_features=3, min_samples_leaf=5, min_samples_split=10, n_estimators=300, total= 0.8s
[CV] bootstrap=True, max_depth=80, max_features=3, m

in_samples_leaf=5, min_samples_split=10, n_estimators=1000

[CV] bootstrap=True, max_depth=80, max_features=3, min_samples_leaf=5, min_samples_split=8, n_estimators=1000, total= 2.7s

[CV] bootstrap=True, max_depth=80, max_features=3, min_samples_leaf=5, min_samples_split=10, n_estimators=1000

[CV] bootstrap=True, max_depth=80, max_features=3, min_samples_leaf=5, min_samples_split=10, n_estimators=300, total= 0.8s

[CV] bootstrap=True, max_depth=80, max_features=3, min_samples_leaf=5, min_samples_split=10, n_estimators=1000

[CV] bootstrap=True, max_depth=80, max_features=3, min_samples_leaf=5, min_samples_split=10, n_estimators=300, total= 0.8s

[CV] bootstrap=True, max_depth=80, max_features=3, min_samples_leaf=5, min_samples_split=12, n_estimators=100

[CV] bootstrap=True, max_depth=80, max_features=3, min_samples_leaf=5, min_samples_split=12, n_estimators=100, total= 0.2s

[CV] bootstrap=True, max_depth=80, max_features=3, min_samples_leaf=5, min_samples_split=12, n_estimators=100

[CV] bootstrap=True, max_depth=80, max_features=3, min_samples_leaf=5, min_samples_split=12, n_estimators=100, total= 0.3s

[CV] bootstrap=True, max_depth=80, max_features=3, min_samples_leaf=5, min_samples_split=12, n_estimators=100

[CV] bootstrap=True, max_depth=80, max_features=3, min_samples_leaf=5, min_samples_split=12, n_estimators=100, total= 0.3s

[CV] bootstrap=True, max_depth=80, max_features=3, min_samples_leaf=5, min_samples_split=12, n_estimators=200

[CV] bootstrap=True, max_depth=80, max_features=3, min_samples_leaf=5, min_samples_split=12, n_estimators=200, total= 0.5s

[CV] bootstrap=True, max_depth=80, max_features=3, min_samples_leaf=5, min_samples_split=12, n_estimators=200

[CV] bootstrap=True, max_depth=80, max_features=3,

min_samples_leaf=5, min_samples_split=12, n_estimators=200, total= 0.5s
[CV] bootstrap=True, max_depth=80, max_features=3, min_samples_leaf=5, min_samples_split=12, n_estimators=200
[CV] bootstrap=True, max_depth=80, max_features=3, min_samples_leaf=5, min_samples_split=10, n_estimators=1000, total= 2.5s
[CV] bootstrap=True, max_depth=80, max_features=3, min_samples_leaf=5, min_samples_split=12, n_estimators=300
[CV] bootstrap=True, max_depth=80, max_features=3, min_samples_leaf=5, min_samples_split=10, n_estimators=1000, total= 2.5s
[CV] bootstrap=True, max_depth=80, max_features=3, min_samples_leaf=5, min_samples_split=12, n_estimators=300
[CV] bootstrap=True, max_depth=80, max_features=3, min_samples_leaf=5, min_samples_split=12, n_estimators=200, total= 0.5s
[CV] bootstrap=True, max_depth=80, max_features=3, min_samples_leaf=5, min_samples_split=12, n_estimators=300
[CV] bootstrap=True, max_depth=80, max_features=3, min_samples_leaf=5, min_samples_split=10, n_estimators=1000, total= 2.5s
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[CV] bootstrap=True, max_depth=80, max_features=3, min_samples_leaf=5, min_samples_split=12, n_estimators=300, total= 0.8s
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[CV] bootstrap=True, max_depth=80, max_features=3, min_samples_leaf=5, min_samples_split=12, n_estimators=300, total= 0.8s
[CV] bootstrap=True, max_depth=80, max_features=3, min_samples_leaf=5, min_samples_split=12, n_estimators=1000
[CV] bootstrap=True, max_depth=80, max_features=3, min_samples_leaf=5, min_samples_split=12, n_estimators=300, total= 0.7s
[CV] bootstrap=True, max_depth=90, max_features=2, m

in_samples_leaf=3, min_samples_split=8, n_estimators=100
[CV] bootstrap=True, max_depth=90, max_features=2, min_samples_leaf=3, min_samples_split=8, n_estimators=100, total= 0.2s
[CV] bootstrap=True, max_depth=90, max_features=2, min_samples_leaf=3, min_samples_split=8, n_estimators=100
[CV] bootstrap=True, max_depth=90, max_features=2, min_samples_leaf=3, min_samples_split=8, n_estimators=100, total= 0.2s
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min_samples_leaf=5, min_samples_split=12, n_estimators=1000, total= 2.5s

[CV] bootstrap=True, max_depth=90, max_features=2, min_samples_leaf=3, min_samples_split=8, n_estimators=300

[CV] bootstrap=True, max_depth=80, max_features=3, min_samples_leaf=5, min_samples_split=12, n_estimators=1000, total= 2.4s

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[CV] bootstrap=True, max_depth=90, max_features=2, min_samples_leaf=3, min_samples_split=8, n_estimators=300, total= 0.8s

[CV] bootstrap=True, max_depth=90, max_features=2, min_samples_leaf=3, min_samples_split=8, n_estimators=1000

[CV] bootstrap=True, max_depth=90, max_features=2, min_samples_leaf=3, min_samples_split=8, n_estimators=300, total= 0.7s

[CV] bootstrap=True, max_depth=90, max_features=2, min_samples_leaf=3, min_samples_split=8, n_estimators=1000

[CV] bootstrap=True, max_depth=90, max_features=2, min_samples_leaf=3, min_samples_split=8, n_estimators=300, total= 0.7s

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[CV] bootstrap=True, max_depth=90, max_features=2, min_samples_leaf=3, min_samples_split=10, n_estimators=100, total= 0.2s

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[CV] bootstrap=True, max_depth=90, max_features=2, min_samples_leaf=3, min_samples_split=10, n_estimators=100, total= 0.2s

in_samples_leaf=3, min_samples_split=10, n_estimators=200

[CV] bootstrap=True, max_depth=90, max_features=2, min_samples_leaf=3, min_samples_split=10, n_estimators=200, total= 0.5s

[CV] bootstrap=True, max_depth=90, max_features=2, min_samples_leaf=3, min_samples_split=10, n_estimators=200

[CV] bootstrap=True, max_depth=90, max_features=2, min_samples_leaf=3, min_samples_split=10, n_estimators=200, total= 0.5s

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[CV] bootstrap=True, max_depth=90, max_features=2, min_samples_leaf=3, min_samples_split=8, n_estimators=1000, total= 2.4s

[CV] bootstrap=True, max_depth=90, max_features=2, min_samples_leaf=3, min_samples_split=10, n_estimators=300

[CV] bootstrap=True, max_depth=90, max_features=2, min_samples_leaf=3, min_samples_split=8, n_estimators=1000, total= 2.5s

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[CV] bootstrap=True, max_depth=90, max_features=2, min_samples_leaf=3, min_samples_split=12, n_estimators=300, total= 0.7s
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min_samples_leaf=4, min_samples_split=8, n_estimator
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rs=1000, total= 2.5s
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min_samples_leaf=4, min_samples_split=8, n_estimator
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in_samples_leaf=4, min_samples_split=8, n_estimators
=300
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min_samples_leaf=3, min_samples_split=12, n_estimato
rs=1000, total= 2.4s
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in_samples_leaf=4, min_samples_split=8, n_estimators
=300
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min_samples_leaf=3, min_samples_split=12, n_estimato
rs=1000, total= 2.4s
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in_samples_leaf=4, min_samples_split=8, n_estimators
=300
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min_samples_leaf=4, min_samples_split=8, n_estimator
s=200, total= 0.6s
[CV] bootstrap=True, max_depth=90, max_features=2, m

in_samples_leaf=4, min_samples_split=8, n_estimators=1000

[CV] bootstrap=True, max_depth=90, max_features=2, min_samples_leaf=4, min_samples_split=8, n_estimators=300, total= 0.8s

[CV] bootstrap=True, max_depth=90, max_features=2, min_samples_leaf=4, min_samples_split=8, n_estimators=1000

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[CV] bootstrap=True, max_depth=90, max_features=2, min_samples_leaf=4, min_samples_split=8, n_estimators=1000

[CV] bootstrap=True, max_depth=90, max_features=2, min_samples_leaf=4, min_samples_split=8, n_estimators=300, total= 0.7s

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[CV] bootstrap=True, max_depth=90, max_features=2, min_samples_leaf=4, min_samples_split=10, n_estimators=100, total= 0.2s

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[CV] bootstrap=True, max_depth=90, max_features=2, min_samples_leaf=4, min_samples_split=10, n_estimators=100

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[CV] bootstrap=True, max_depth=90, max_features=2, min_samples_leaf=4, min_samples_split=10, n_estimators=300, total= 0.8s
[CV] bootstrap=True, max_depth=90, max_features=2, m

in_samples_leaf=4, min_samples_split=12, n_estimators=100
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[CV] bootstrap=True, max_depth=90, max_features=2, m

in_samples_leaf=5, min_samples_split=10, n_estimators=300

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[Parallel(n_jobs=-1)]: Done 357 tasks | elapsed: 1.6min

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[CV] bootstrap=True, max_depth=90, max_features=3, min_samples_leaf=3, min_samples_split=12, n_estimators=1000, total= 2.7s

[CV] bootstrap=True, max_depth=90, max_features=3, min_samples_leaf=4, min_samples_split=8, n_estimators=300

[CV] bootstrap=True, max_depth=90, max_features=3, min_samples_leaf=4, min_samples_split=8, n_estimators=200, total= 0.5s

[CV] bootstrap=True, max_depth=90, max_features=3, min_samples_leaf=4, min_samples_split=8, n_estimators=300

[CV] bootstrap=True, max_depth=90, max_features=3, min_samples_leaf=3, min_samples_split=12, n_estimators=1000, total= 2.8s

[CV] bootstrap=True, max_depth=90, max_features=3, min_samples_leaf=4, min_samples_split=8, n_estimators=1000

[CV] bootstrap=True, max_depth=90, max_features=3, min_samples_leaf=4, min_samples_split=8, n_estimators=300, total= 0.9s

[CV] bootstrap=True, max_depth=90, max_features=3, min_samples_leaf=4, min_samples_split=8, n_estimators=1000

[CV] bootstrap=True, max_depth=90, max_features=3, min_samples_leaf=4, min_samples_split=8, n_estimators=300, total= 0.9s

[CV] bootstrap=True, max_depth=90, max_features=3, min_samples_leaf=4, min_samples_split=8, n_estimators=1000

[CV] bootstrap=True, max_depth=90, max_features=3, min_samples_leaf=4, min_samples_split=8, n_estimators=300, total= 0.9s

[CV] bootstrap=True, max_depth=90, max_features=3, min_samples_leaf=4, min_samples_split=10, n_estimators=100

[CV] bootstrap=True, max_depth=90, max_features=3, min_samples_leaf=4, min_samples_split=10, n_estimators=100, total= 0.3s

[CV] bootstrap=True, max_depth=90, max_features=3, min_samples_leaf=4, min_samples_split=10, n_estimators=100

[CV] bootstrap=True, max_depth=90, max_features=3, min_samples_leaf=4, min_samples_split=10, n_estimators=100, total= 0.3s

[CV] bootstrap=True, max_depth=90, max_features=3, min_samples_leaf=4, min_samples_split=10, n_estimators=100

[CV] bootstrap=True, max_depth=90, max_features=3, min_samples_leaf=4, min_samples_split=10, n_estimators=100, total= 0.3s

[CV] bootstrap=True, max_depth=90, max_features=3, min_samples_leaf=4, min_samples_split=10, n_estimators=200

[CV] bootstrap=True, max_depth=90, max_features=3, min_samples_leaf=4, min_samples_split=10, n_estimators=200, total= 0.6s

[CV] bootstrap=True, max_depth=90, max_features=3, min_samples_leaf=4, min_samples_split=10, n_estimators=200

[CV] bootstrap=True, max_depth=90, max_features=3, min_samples_leaf=4, min_samples_split=10, n_estimators=200, total= 0.5s

[CV] bootstrap=True, max_depth=90, max_features=3, min_samples_leaf=4, min_samples_split=10, n_estimators=200

[CV] bootstrap=True, max_depth=90, max_features=3, min_samples_leaf=4, min_samples_split=8, n_estimators=1000, total= 2.9s

[CV] bootstrap=True, max_depth=90, max_features=3, min_samples_leaf=4, min_samples_split=10, n_estimators=300

[CV] bootstrap=True, max_depth=90, max_features=3, min_samples_leaf=4, min_samples_split=8, n_estimators=1000, total= 2.9s

[CV] bootstrap=True, max_depth=90, max_features=3, min_samples_leaf=4, min_samples_split=10, n_estimators=300

[CV] bootstrap=True, max_depth=90, max_features=3, min_samples_leaf=4, min_samples_split=10, n_estimators=200, total= 0.6s

[CV] bootstrap=True, max_depth=90, max_features=3, min_samples_leaf=4, min_samples_split=10, n_estimators=300

[CV] bootstrap=True, max_depth=90, max_features=3, min_samples_leaf=4, min_samples_split=8, n_estimators=1000, total= 2.8s

[CV] bootstrap=True, max_depth=90, max_features=3, min_samples_leaf=4, min_samples_split=10, n_estimators=1000

[CV] bootstrap=True, max_depth=90, max_features=3, min_samples_leaf=4, min_samples_split=10, n_estimators=300, total= 0.8s

[CV] bootstrap=True, max_depth=90, max_features=3, min_samples_leaf=4, min_samples_split=10, n_estimators=1000

[CV] bootstrap=True, max_depth=90, max_features=3, min_samples_leaf=4, min_samples_split=10, n_estimators=300, total= 0.8s

[CV] bootstrap=True, max_depth=90, max_features=3, min_samples_leaf=4, min_samples_split=10, n_estimators=1000

[CV] bootstrap=True, max_depth=90, max_features=3, min_samples_leaf=4, min_samples_split=10, n_estimators=300, total= 0.8s

[CV] bootstrap=True, max_depth=90, max_features=3, min_samples_leaf=4, min_samples_split=12, n_estimators=100

[CV] bootstrap=True, max_depth=90, max_features=3, min_samples_leaf=4, min_samples_split=12, n_estimators=100, total= 0.2s

[CV] bootstrap=True, max_depth=90, max_features=3, min_samples_leaf=4, min_samples_split=12, n_estimators=100

[CV] bootstrap=True, max_depth=90, max_features=3, min_samples_leaf=4, min_samples_split=12, n_estimators=100, total= 0.2s

[CV] bootstrap=True, max_depth=90, max_features=3, min_samples_leaf=4, min_samples_split=12, n_estimators=100

[CV] bootstrap=True, max_depth=90, max_features=3, min_samples_leaf=4, min_samples_split=12, n_estimators=100, total= 0.2s

[CV] bootstrap=True, max_depth=90, max_features=3, min_samples_leaf=4, min_samples_split=12, n_estimators=200

[CV] bootstrap=True, max_depth=90, max_features=3, min_samples_leaf=4, min_samples_split=12, n_estimators=200, total= 0.5s

[CV] bootstrap=True, max_depth=90, max_features=3, min_samples_leaf=4, min_samples_split=12, n_estimators=200

[CV] bootstrap=True, max_depth=90, max_features=3, min_samples_leaf=4, min_samples_split=12, n_estimators=200, total= 0.5s

[CV] bootstrap=True, max_depth=90, max_features=3, min_samples_leaf=4, min_samples_split=12, n_estimators=200

[CV] bootstrap=True, max_depth=90, max_features=3, min_samples_leaf=4, min_samples_split=10, n_estimators=1000, total= 2.6s

[CV] bootstrap=True, max_depth=90, max_features=3, min_samples_leaf=4, min_samples_split=12, n_estimators=300

[CV] bootstrap=True, max_depth=90, max_features=3, min_samples_leaf=4, min_samples_split=10, n_estimators=1000, total= 2.6s

[CV] bootstrap=True, max_depth=90, max_features=3, min_samples_leaf=4, min_samples_split=12, n_estimators=300

[CV] bootstrap=True, max_depth=90, max_features=3, min_samples_leaf=4, min_samples_split=12, n_estimators=200, total= 0.5s

[CV] bootstrap=True, max_depth=90, max_features=3, min_samples_leaf=4, min_samples_split=12, n_estimators=300

[CV] bootstrap=True, max_depth=90, max_features=3, min_samples_leaf=4, min_samples_split=10, n_estimators=1000, total= 2.6s

[CV] bootstrap=True, max_depth=90, max_features=3, min_samples_leaf=4, min_samples_split=12, n_estimators=1000

[CV] bootstrap=True, max_depth=90, max_features=3, min_samples_leaf=4, min_samples_split=12, n_estimators=300, total= 0.8s

[CV] bootstrap=True, max_depth=90, max_features=3, min_samples_leaf=4, min_samples_split=12, n_estimators=1000

[CV] bootstrap=True, max_depth=90, max_features=3, min_samples_leaf=4, min_samples_split=12, n_estimators=300, total= 0.8s

[CV] bootstrap=True, max_depth=90, max_features=3, min_samples_leaf=4, min_samples_split=12, n_estimators=1000

[CV] bootstrap=True, max_depth=90, max_features=3,
min_samples_leaf=4, min_samples_split=12, n_estimators=300, total= 0.8s

[CV] bootstrap=True, max_depth=90, max_features=3, min_samples_leaf=5, min_samples_split=8, n_estimators=100

[CV] bootstrap=True, max_depth=90, max_features=3, min_samples_leaf=5, min_samples_split=8, n_estimators=100, total= 0.3s

[CV] bootstrap=True, max_depth=90, max_features=3, min_samples_leaf=5, min_samples_split=8, n_estimators=100

[CV] bootstrap=True, max_depth=90, max_features=3, min_samples_leaf=5, min_samples_split=8, n_estimators=100, total= 0.2s

[CV] bootstrap=True, max_depth=90, max_features=3, min_samples_leaf=5, min_samples_split=8, n_estimators=100

[CV] bootstrap=True, max_depth=90, max_features=3, min_samples_leaf=5, min_samples_split=8, n_estimators=100, total= 0.3s

[CV] bootstrap=True, max_depth=90, max_features=3, min_samples_leaf=5, min_samples_split=8, n_estimators=200

[CV] bootstrap=True, max_depth=90, max_features=3, min_samples_leaf=5, min_samples_split=8, n_estimators=200, total= 0.5s

[CV] bootstrap=True, max_depth=90, max_features=3, min_samples_leaf=5, min_samples_split=8, n_estimators=200

[CV] bootstrap=True, max_depth=90, max_features=3, min_samples_leaf=4, min_samples_split=12, n_estimators=1000, total= 2.7s

[CV] bootstrap=True, max_depth=90, max_features=3, min_samples_leaf=5, min_samples_split=8, n_estimators=200

[CV] bootstrap=True, max_depth=90, max_features=3, min_samples_leaf=5, min_samples_split=8, n_estimators=200, total= 0.5s

[CV] bootstrap=True, max_depth=90, max_features=3, min_samples_leaf=5, min_samples_split=8, n_estimators=300

[CV] bootstrap=True, max_depth=90, max_features=3, min_samples_leaf=4, min_samples_split=12, n_estimators=1000, total= 2.6s

[CV] bootstrap=True, max_depth=90, max_features=3, min_samples_leaf=5, min_samples_split=8, n_estimators=300

[CV] bootstrap=True, max_depth=90, max_features=3, min_samples_leaf=4, min_samples_split=12, n_estimators=1000, total= 2.6s

[CV] bootstrap=True, max_depth=90, max_features=3, min_samples_leaf=5, min_samples_split=8, n_estimators=300

[CV] bootstrap=True, max_depth=90, max_features=3, min_samples_leaf=5, min_samples_split=8, n_estimators=200, total= 0.6s

[CV] bootstrap=True, max_depth=90, max_features=3, min_samples_leaf=5, min_samples_split=8, n_estimators=1000

[CV] bootstrap=True, max_depth=90, max_features=3, min_samples_leaf=5, min_samples_split=8, n_estimators=300, total= 0.8s

[CV] bootstrap=True, max_depth=90, max_features=3, min_samples_leaf=5, min_samples_split=8, n_estimators=1000

[CV] bootstrap=True, max_depth=90, max_features=3, min_samples_leaf=5, min_samples_split=8, n_estimators=300, total= 0.7s

[CV] bootstrap=True, max_depth=90, max_features=3, min_samples_leaf=5, min_samples_split=8, n_estimators=1000

[CV] bootstrap=True, max_depth=90, max_features=3, min_samples_leaf=5, min_samples_split=8, n_estimators=300, total= 0.8s

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[CV] bootstrap=True, max_depth=90, max_features=3, min_samples_leaf=5, min_samples_split=10, n_estimators=300

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[CV] bootstrap=True, max_depth=90, max_features=3, min_samples_leaf=5, min_samples_split=10, n_estimators=300, total= 0.8s

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[CV] bootstrap=True, max_depth=90, max_features=3, min_samples_leaf=5, min_samples_split=12, n_estimators=100

[CV] bootstrap=True, max_depth=90, max_features=3, min_samples_leaf=5, min_samples_split=12, n_estimators=100, total= 0.2s

[CV] bootstrap=True, max_depth=90, max_features=3, min_samples_leaf=5, min_samples_split=12, n_estimators=100

[CV] bootstrap=True, max_depth=90, max_features=3, min_samples_leaf=5, min_samples_split=12, n_estimators=100, total= 0.2s

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[CV] bootstrap=True, max_depth=90, max_features=3, min_samples_leaf=5, min_samples_split=12, n_estimators=100, total= 0.3s

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[CV] bootstrap=True, max_depth=90, max_features=3, min_samples_leaf=5, min_samples_split=12, n_estimators=200, total= 0.5s

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min_samples_leaf=5, min_samples_split=10, n_estimators=1000, total= 2.6s

[CV] bootstrap=True, max_depth=90, max_features=3, min_samples_leaf=5, min_samples_split=12, n_estimators=300

[CV] bootstrap=True, max_depth=90, max_features=3, min_samples_leaf=5, min_samples_split=10, n_estimators=1000, total= 2.5s

[CV] bootstrap=True, max_depth=90, max_features=3, min_samples_leaf=5, min_samples_split=12, n_estimators=300

[CV] bootstrap=True, max_depth=90, max_features=3, min_samples_leaf=5, min_samples_split=12, n_estimators=200, total= 0.6s

[CV] bootstrap=True, max_depth=90, max_features=3, min_samples_leaf=5, min_samples_split=12, n_estimators=300

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[CV] bootstrap=True, max_depth=90, max_features=3, min_samples_leaf=5, min_samples_split=12, n_estimators=1000

[CV] bootstrap=True, max_depth=90, max_features=3, min_samples_leaf=5, min_samples_split=12, n_estimators=300, total= 0.8s

[CV] bootstrap=True, max_depth=90, max_features=3, min_samples_leaf=5, min_samples_split=12, n_estimators=1000

[CV] bootstrap=True, max_depth=90, max_features=3, min_samples_leaf=5, min_samples_split=12, n_estimators=300, total= 0.8s

[CV] bootstrap=True, max_depth=90, max_features=3, min_samples_leaf=5, min_samples_split=12, n_estimators=1000

[CV] bootstrap=True, max_depth=90, max_features=3, min_samples_leaf=5, min_samples_split=12, n_estimators=300, total= 0.9s

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[CV] bootstrap=True, max_depth=100, max_features=2, min_samples_leaf=3, min_samples_split=8, n_estimators=100, total= 0.3s

[CV] bootstrap=True, max_depth=100, max_features=2,
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s=100

[CV] bootstrap=True, max_depth=100, max_features=2,
min_samples_leaf=3, min_samples_split=8, n_estimator
s=100, total= 0.3s

[CV] bootstrap=True, max_depth=100, max_features=2,
min_samples_leaf=3, min_samples_split=8, n_estimator
s=100

[CV] bootstrap=True, max_depth=100, max_features=2,
min_samples_leaf=3, min_samples_split=8, n_estimator
s=100, total= 0.3s

[CV] bootstrap=True, max_depth=100, max_features=2,
min_samples_leaf=3, min_samples_split=8, n_estimator
s=200

[CV] bootstrap=True, max_depth=100, max_features=2,
min_samples_leaf=3, min_samples_split=8, n_estimator
s=200, total= 0.5s

[CV] bootstrap=True, max_depth=100, max_features=2,
min_samples_leaf=3, min_samples_split=8, n_estimator
s=200

[CV] bootstrap=True, max_depth=90, max_features=3,
min_samples_leaf=5, min_samples_split=12, n_estimato
rs=1000, total= 2.6s

[CV] bootstrap=True, max_depth=100, max_features=2,
min_samples_leaf=3, min_samples_split=8, n_estimator
s=200

[CV] bootstrap=True, max_depth=100, max_features=2,
min_samples_leaf=3, min_samples_split=8, n_estimator
s=200, total= 0.5s

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min_samples_leaf=3, min_samples_split=8, n_estimator
s=300

[CV] bootstrap=True, max_depth=90, max_features=3,
min_samples_leaf=5, min_samples_split=12, n_estimato
rs=1000, total= 2.7s

[CV] bootstrap=True, max_depth=100, max_features=2,
min_samples_leaf=3, min_samples_split=8, n_estimator
s=300

[CV] bootstrap=True, max_depth=90, max_features=3,
min_samples_leaf=5, min_samples_split=12, n_estimato
rs=1000, total= 2.6s

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min_samples_leaf=3, min_samples_split=8, n_estimator
s=300

[CV] bootstrap=True, max_depth=100, max_features=2,
min_samples_leaf=3, min_samples_split=8, n_estimator
s=200, total= 0.6s

[CV] bootstrap=True, max_depth=100, max_features=2,
min_samples_leaf=3, min_samples_split=8, n_estimator
s=1000

[CV] bootstrap=True, max_depth=100, max_features=2,
min_samples_leaf=3, min_samples_split=8, n_estimator
s=300, total= 0.8s

[CV] bootstrap=True, max_depth=100, max_features=2,
min_samples_leaf=3, min_samples_split=8, n_estimator
s=1000

[CV] bootstrap=True, max_depth=100, max_features=2,
min_samples_leaf=3, min_samples_split=8, n_estimator
s=300, total= 0.8s

[CV] bootstrap=True, max_depth=100, max_features=2,
min_samples_leaf=3, min_samples_split=8, n_estimator
s=1000

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min_samples_leaf=3, min_samples_split=8, n_estimator
s=300, total= 0.7s

[CV] bootstrap=True, max_depth=100, max_features=2,
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rs=100

[CV] bootstrap=True, max_depth=100, max_features=2,
min_samples_leaf=3, min_samples_split=10, n_estimato
rs=100, total= 0.3s

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rs=100

[CV] bootstrap=True, max_depth=100, max_features=2,
min_samples_leaf=3, min_samples_split=10, n_estimato
rs=100, total= 0.3s

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min_samples_leaf=3, min_samples_split=10, n_estimato
rs=100

[CV] bootstrap=True, max_depth=100, max_features=2,
min_samples_leaf=3, min_samples_split=10, n_estimato
rs=100, total= 0.3s

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rs=200

[CV] bootstrap=True, max_depth=100, max_features=2,
min_samples_leaf=3, min_samples_split=10, n_estimato
rs=200, total= 0.5s

[CV] bootstrap=True, max_depth=100, max_features=2,
min_samples_leaf=3, min_samples_split=10, n_estimators=200

[CV] bootstrap=True, max_depth=100, max_features=2,
min_samples_leaf=3, min_samples_split=10, n_estimators=200, total= 0.5s

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min_samples_leaf=3, min_samples_split=8, n_estimators=1000, total= 2.6s

[CV] bootstrap=True, max_depth=100, max_features=2,
min_samples_leaf=3, min_samples_split=10, n_estimators=300

[CV] bootstrap=True, max_depth=100, max_features=2,
min_samples_leaf=3, min_samples_split=8, n_estimators=1000, total= 2.6s

[CV] bootstrap=True, max_depth=100, max_features=2,
min_samples_leaf=3, min_samples_split=10, n_estimators=300

[CV] bootstrap=True, max_depth=100, max_features=2,
min_samples_leaf=3, min_samples_split=10, n_estimators=200, total= 0.5s

[CV] bootstrap=True, max_depth=100, max_features=2,
min_samples_leaf=3, min_samples_split=10, n_estimators=300

[CV] bootstrap=True, max_depth=100, max_features=2,
min_samples_leaf=3, min_samples_split=8, n_estimators=1000, total= 2.6s

[CV] bootstrap=True, max_depth=100, max_features=2,
min_samples_leaf=3, min_samples_split=10, n_estimators=1000

[CV] bootstrap=True, max_depth=100, max_features=2,
min_samples_leaf=3, min_samples_split=10, n_estimators=300, total= 0.8s

[CV] bootstrap=True, max_depth=100, max_features=2,
min_samples_leaf=3, min_samples_split=10, n_estimators=1000

[CV] bootstrap=True, max_depth=100, max_features=2,
min_samples_leaf=3, min_samples_split=10, n_estimators=300, total= 0.8s

[CV] bootstrap=True, max_depth=100, max_features=2,
min_samples_leaf=3, min_samples_split=10, n_estimators=1000

[CV] bootstrap=True, max_depth=100, max_features=2,
min_samples_leaf=3, min_samples_split=10, n_estimators=300, total= 0.8s

[CV] bootstrap=True, max_depth=100, max_features=2,
min_samples_leaf=3, min_samples_split=12, n_estimators=100

[CV] bootstrap=True, max_depth=100, max_features=2,
min_samples_leaf=3, min_samples_split=12, n_estimators=100, total= 0.2s

[CV] bootstrap=True, max_depth=100, max_features=2,
min_samples_leaf=3, min_samples_split=12, n_estimators=100

[CV] bootstrap=True, max_depth=100, max_features=2,
min_samples_leaf=3, min_samples_split=12, n_estimators=100, total= 0.2s

[CV] bootstrap=True, max_depth=100, max_features=2,
min_samples_leaf=3, min_samples_split=12, n_estimators=100

[CV] bootstrap=True, max_depth=100, max_features=2,
min_samples_leaf=3, min_samples_split=12, n_estimators=100, total= 0.2s

[CV] bootstrap=True, max_depth=100, max_features=2,
min_samples_leaf=3, min_samples_split=12, n_estimators=200

[CV] bootstrap=True, max_depth=100, max_features=2,
min_samples_leaf=3, min_samples_split=12, n_estimators=200, total= 0.5s

[CV] bootstrap=True, max_depth=100, max_features=2,
min_samples_leaf=3, min_samples_split=12, n_estimators=200

[CV] bootstrap=True, max_depth=100, max_features=2,
min_samples_leaf=3, min_samples_split=12, n_estimators=200, total= 0.5s

[CV] bootstrap=True, max_depth=100, max_features=2,
min_samples_leaf=3, min_samples_split=12, n_estimators=200

[CV] bootstrap=True, max_depth=100, max_features=2,
min_samples_leaf=3, min_samples_split=10, n_estimators=1000, total= 2.5s

[CV] bootstrap=True, max_depth=100, max_features=2,
min_samples_leaf=3, min_samples_split=12, n_estimators=300

[CV] bootstrap=True, max_depth=100, max_features=2,
min_samples_leaf=3, min_samples_split=10, n_estimators=1000, total= 2.5s

[CV] bootstrap=True, max_depth=100, max_features=2,
min_samples_leaf=3, min_samples_split=12, n_estimators=300

[CV] bootstrap=True, max_depth=100, max_features=2,
min_samples_leaf=3, min_samples_split=12, n_estimators=200, total= 0.6s

[CV] bootstrap=True, max_depth=100, max_features=2,
min_samples_leaf=3, min_samples_split=12, n_estimators=300

[CV] bootstrap=True, max_depth=100, max_features=2,
min_samples_leaf=3, min_samples_split=10, n_estimators=1000, total= 2.6s

[CV] bootstrap=True, max_depth=100, max_features=2,
min_samples_leaf=3, min_samples_split=12, n_estimators=1000

[CV] bootstrap=True, max_depth=100, max_features=2,
min_samples_leaf=3, min_samples_split=12, n_estimators=300, total= 0.9s

[CV] bootstrap=True, max_depth=100, max_features=2,
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[CV] bootstrap=True, max_depth=100, max_features=2,
min_samples_leaf=3, min_samples_split=12, n_estimators=300, total= 0.8s

[CV] bootstrap=True, max_depth=100, max_features=2,
min_samples_leaf=3, min_samples_split=12, n_estimators=1000

[CV] bootstrap=True, max_depth=100, max_features=2,
min_samples_leaf=3, min_samples_split=12, n_estimators=300, total= 0.8s

[CV] bootstrap=True, max_depth=100, max_features=2,
min_samples_leaf=4, min_samples_split=8, n_estimators=100

[CV] bootstrap=True, max_depth=100, max_features=2,
min_samples_leaf=4, min_samples_split=8, n_estimators=100, total= 0.2s

[CV] bootstrap=True, max_depth=100, max_features=2,
min_samples_leaf=4, min_samples_split=8, n_estimators=100

[CV] bootstrap=True, max_depth=100, max_features=2,
min_samples_leaf=4, min_samples_split=8, n_estimators=100, total= 0.3s

[CV] bootstrap=True, max_depth=100, max_features=2,
min_samples_leaf=4, min_samples_split=8, n_estimators=100

[CV] bootstrap=True, max_depth=100, max_features=2,
min_samples_leaf=4, min_samples_split=8, n_estimator
s=100, total= 0.3s

[CV] bootstrap=True, max_depth=100, max_features=2,
min_samples_leaf=4, min_samples_split=8, n_estimator
s=200

[CV] bootstrap=True, max_depth=100, max_features=2,
min_samples_leaf=4, min_samples_split=8, n_estimator
s=200, total= 0.5s

[CV] bootstrap=True, max_depth=100, max_features=2,
min_samples_leaf=4, min_samples_split=8, n_estimator
s=200

[CV] bootstrap=True, max_depth=100, max_features=2,
min_samples_leaf=3, min_samples_split=12, n_estimato
rs=1000, total= 2.6s

[CV] bootstrap=True, max_depth=100, max_features=2,
min_samples_leaf=4, min_samples_split=8, n_estimator
s=200

[CV] bootstrap=True, max_depth=100, max_features=2,
min_samples_leaf=4, min_samples_split=8, n_estimator
s=200, total= 0.5s

[CV] bootstrap=True, max_depth=100, max_features=2,
min_samples_leaf=4, min_samples_split=8, n_estimator
s=300

[CV] bootstrap=True, max_depth=100, max_features=2,
min_samples_leaf=3, min_samples_split=12, n_estimato
rs=1000, total= 2.6s

[CV] bootstrap=True, max_depth=100, max_features=2,
min_samples_leaf=4, min_samples_split=8, n_estimator
s=300

[CV] bootstrap=True, max_depth=100, max_features=2,
min_samples_leaf=4, min_samples_split=8, n_estimator
s=200, total= 0.5s

[CV] bootstrap=True, max_depth=100, max_features=2,
min_samples_leaf=4, min_samples_split=8, n_estimator
s=300

[CV] bootstrap=True, max_depth=100, max_features=2,
min_samples_leaf=3, min_samples_split=12, n_estimato
rs=1000, total= 2.7s

[CV] bootstrap=True, max_depth=100, max_features=2,
min_samples_leaf=4, min_samples_split=8, n_estimator
s=1000

[CV] bootstrap=True, max_depth=100, max_features=2,
min_samples_leaf=4, min_samples_split=8, n_estimator
s=300, total= 0.8s

[CV] bootstrap=True, max_depth=100, max_features=2,
min_samples_leaf=4, min_samples_split=8, n_estimators=1000

[CV] bootstrap=True, max_depth=100, max_features=2,
min_samples_leaf=4, min_samples_split=8, n_estimators=300, total= 0.8s

[CV] bootstrap=True, max_depth=100, max_features=2,
min_samples_leaf=4, min_samples_split=8, n_estimators=1000

[CV] bootstrap=True, max_depth=100, max_features=2,
min_samples_leaf=4, min_samples_split=8, n_estimators=300, total= 0.7s

[CV] bootstrap=True, max_depth=100, max_features=2,
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[CV] bootstrap=True, max_depth=100, max_features=2,
min_samples_leaf=4, min_samples_split=10, n_estimators=100, total= 0.2s

[CV] bootstrap=True, max_depth=100, max_features=2,
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[CV] bootstrap=True, max_depth=100, max_features=2,
min_samples_leaf=4, min_samples_split=10, n_estimators=100, total= 0.2s

[CV] bootstrap=True, max_depth=100, max_features=2,
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min_samples_leaf=4, min_samples_split=8, n_estimator
s=1000, total= 2.6s

[CV] bootstrap=True, max_depth=100, max_features=2,
min_samples_leaf=4, min_samples_split=10, n_estimato
rs=300

[CV] bootstrap=True, max_depth=100, max_features=2,
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s=1000, total= 2.5s

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rs=300

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min_samples_leaf=4, min_samples_split=10, n_estimato
rs=200, total= 0.6s

[CV] bootstrap=True, max_depth=100, max_features=2,
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rs=300

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s=1000, total= 2.6s

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min_samples_leaf=4, min_samples_split=10, n_estimato
rs=1000

[CV] bootstrap=True, max_depth=100, max_features=2,
min_samples_leaf=4, min_samples_split=10, n_estimato
rs=300, total= 0.8s

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rs=1000

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min_samples_leaf=4, min_samples_split=10, n_estimato
rs=300, total= 0.8s

[CV] bootstrap=True, max_depth=100, max_features=2,
min_samples_leaf=4, min_samples_split=10, n_estimato
rs=1000

[CV] bootstrap=True, max_depth=100, max_features=2,
min_samples_leaf=4, min_samples_split=10, n_estimato
rs=300, total= 0.8s

[CV] bootstrap=True, max_depth=100, max_features=2,
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rs=100

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rs=100, total= 0.2s

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[CV] bootstrap=True, max_depth=100, max_features=2,
min_samples_leaf=4, min_samples_split=12, n_estimators=100, total= 0.3s

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[CV] bootstrap=True, max_depth=100, max_features=2,
min_samples_leaf=5, min_samples_split=12, n_estimators=200, total= 0.5s

[CV] bootstrap=True, max_depth=100, max_features=2,
min_samples_leaf=5, min_samples_split=12, n_estimators=200

[CV] bootstrap=True, max_depth=100, max_features=2,
min_samples_leaf=5, min_samples_split=12, n_estimators=200, total= 0.5s

[CV] bootstrap=True, max_depth=100, max_features=2,
min_samples_leaf=5, min_samples_split=12, n_estimators=200

[CV] bootstrap=True, max_depth=100, max_features=2,
min_samples_leaf=5, min_samples_split=10, n_estimators=1000, total= 2.5s

[CV] bootstrap=True, max_depth=100, max_features=2,
min_samples_leaf=5, min_samples_split=12, n_estimators=300

[CV] bootstrap=True, max_depth=100, max_features=2,
min_samples_leaf=5, min_samples_split=10, n_estimators=1000, total= 2.5s

[CV] bootstrap=True, max_depth=100, max_features=2,
min_samples_leaf=5, min_samples_split=12, n_estimators=300

[CV] bootstrap=True, max_depth=100, max_features=2,
min_samples_leaf=5, min_samples_split=10, n_estimators=1000, total= 2.5s

[CV] bootstrap=True, max_depth=100, max_features=2,
min_samples_leaf=5, min_samples_split=12, n_estimators=300

[CV] bootstrap=True, max_depth=100, max_features=2,
min_samples_leaf=5, min_samples_split=12, n_estimators=200, total= 0.5s

[CV] bootstrap=True, max_depth=100, max_features=2,
min_samples_leaf=5, min_samples_split=12, n_estimators=1000

[CV] bootstrap=True, max_depth=100, max_features=2,
min_samples_leaf=5, min_samples_split=12, n_estimators=300, total= 0.8s

[CV] bootstrap=True, max_depth=100, max_features=2,
min_samples_leaf=5, min_samples_split=12, n_estimators=1000

[CV] bootstrap=True, max_depth=100, max_features=2,
min_samples_leaf=5, min_samples_split=12, n_estimators=300, total= 0.8s

[CV] bootstrap=True, max_depth=100, max_features=2,
min_samples_leaf=5, min_samples_split=12, n_estimators=1000

[CV] bootstrap=True, max_depth=100, max_features=2,
min_samples_leaf=5, min_samples_split=12, n_estimators=300, total= 0.8s

[CV] bootstrap=True, max_depth=100, max_features=3,
min_samples_leaf=3, min_samples_split=8, n_estimators=100

[CV] bootstrap=True, max_depth=100, max_features=3,
min_samples_leaf=3, min_samples_split=8, n_estimators=100, total= 0.2s

[CV] bootstrap=True, max_depth=100, max_features=3,
min_samples_leaf=3, min_samples_split=8, n_estimators=100

[CV] bootstrap=True, max_depth=100, max_features=3,
min_samples_leaf=3, min_samples_split=8, n_estimators=100, total= 0.2s

[CV] bootstrap=True, max_depth=100, max_features=3,
min_samples_leaf=3, min_samples_split=8, n_estimators=100

[CV] bootstrap=True, max_depth=100, max_features=3,
min_samples_leaf=3, min_samples_split=8, n_estimators=100, total= 0.2s

[CV] bootstrap=True, max_depth=100, max_features=3,
min_samples_leaf=3, min_samples_split=8, n_estimators=200

[CV] bootstrap=True, max_depth=100, max_features=3,
min_samples_leaf=3, min_samples_split=8, n_estimators=200, total= 0.5s

[CV] bootstrap=True, max_depth=100, max_features=3,
min_samples_leaf=3, min_samples_split=8, n_estimators=200

[CV] bootstrap=True, max_depth=100, max_features=3,
min_samples_leaf=3, min_samples_split=8, n_estimators=200, total= 0.5s

[CV] bootstrap=True, max_depth=100, max_features=3,
min_samples_leaf=3, min_samples_split=8, n_estimators=200

[CV] bootstrap=True, max_depth=100, max_features=2,
min_samples_leaf=5, min_samples_split=12, n_estimators=1000, total= 2.6s

[CV] bootstrap=True, max_depth=100, max_features=3,
min_samples_leaf=3, min_samples_split=8, n_estimators=300

[CV] bootstrap=True, max_depth=100, max_features=2,
min_samples_leaf=5, min_samples_split=12, n_estimators=1000, total= 2.5s

[CV] bootstrap=True, max_depth=100, max_features=3,
min_samples_leaf=3, min_samples_split=8, n_estimators=300

[CV] bootstrap=True, max_depth=100, max_features=2,
min_samples_leaf=5, min_samples_split=12, n_estimators=1000, total= 2.6s

[CV] bootstrap=True, max_depth=100, max_features=3,
min_samples_leaf=3, min_samples_split=8, n_estimators=300

[CV] bootstrap=True, max_depth=100, max_features=3,
min_samples_leaf=3, min_samples_split=8, n_estimators=200, total= 0.6s

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min_samples_leaf=3, min_samples_split=8, n_estimators=1000

[CV] bootstrap=True, max_depth=100, max_features=3,
min_samples_leaf=3, min_samples_split=8, n_estimators=300, total= 0.8s

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min_samples_leaf=3, min_samples_split=8, n_estimators=1000

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min_samples_leaf=3, min_samples_split=8, n_estimators=300, total= 0.8s

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min_samples_leaf=3, min_samples_split=8, n_estimators=1000

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min_samples_leaf=3, min_samples_split=8, n_estimators=300, total= 0.8s

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[CV] bootstrap=True, max_depth=100, max_features=3,
min_samples_leaf=3, min_samples_split=10, n_estimators=100, total= 0.3s

[CV] bootstrap=True, max_depth=100, max_features=3,
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[CV] bootstrap=True, max_depth=100, max_features=3,
min_samples_leaf=3, min_samples_split=10, n_estimators=100, total= 0.2s

[CV] bootstrap=True, max_depth=100, max_features=3,
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min_samples_leaf=3, min_samples_split=10, n_estimators=200, total= 0.5s

[CV] bootstrap=True, max_depth=100, max_features=3,
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min_samples_leaf=3, min_samples_split=10, n_estimators=200, total= 0.5s

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min_samples_leaf=3, min_samples_split=10, n_estimators=200

[CV] bootstrap=True, max_depth=100, max_features=3,
min_samples_leaf=3, min_samples_split=8, n_estimators=1000, total= 2.6s

[CV] bootstrap=True, max_depth=100, max_features=3,
min_samples_leaf=3, min_samples_split=10, n_estimators=300

[CV] bootstrap=True, max_depth=100, max_features=3,
min_samples_leaf=3, min_samples_split=8, n_estimators=1000, total= 2.5s

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s=1000, total= 2.5s

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rs=1000

[CV] bootstrap=True, max_depth=100, max_features=3,
min_samples_leaf=3, min_samples_split=10, n_estimato
rs=300, total= 0.8s

[CV] bootstrap=True, max_depth=100, max_features=3,
min_samples_leaf=3, min_samples_split=10, n_estimato
rs=1000

[CV] bootstrap=True, max_depth=100, max_features=3,
min_samples_leaf=3, min_samples_split=10, n_estimato
rs=300, total= 0.8s

[CV] bootstrap=True, max_depth=100, max_features=3,
min_samples_leaf=3, min_samples_split=10, n_estimato
rs=1000

[CV] bootstrap=True, max_depth=100, max_features=3,
min_samples_leaf=3, min_samples_split=10, n_estimato
rs=300, total= 0.8s

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rs=100

[CV] bootstrap=True, max_depth=100, max_features=3,
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rs=100, total= 0.3s

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rs=100

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min_samples_leaf=3, min_samples_split=12, n_estimato
rs=100, total= 0.3s

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rs=100

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rs=100, total= 0.2s

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rs=200

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rs=200, total= 0.5s

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[CV] bootstrap=True, max_depth=100, max_features=3,
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s=100

[CV] bootstrap=True, max_depth=100, max_features=3,
min_samples_leaf=5, min_samples_split=8, n_estimator
s=100, total= 0.3s

[CV] bootstrap=True, max_depth=100, max_features=3,
min_samples_leaf=5, min_samples_split=8, n_estimator
s=100

[CV] bootstrap=True, max_depth=100, max_features=3,
min_samples_leaf=5, min_samples_split=8, n_estimator
s=100, total= 0.2s

[CV] bootstrap=True, max_depth=100, max_features=3,
min_samples_leaf=5, min_samples_split=8, n_estimator
s=200

[CV] bootstrap=True, max_depth=100, max_features=3,
min_samples_leaf=5, min_samples_split=8, n_estimator
s=200, total= 0.5s

[CV] bootstrap=True, max_depth=100, max_features=3,
min_samples_leaf=5, min_samples_split=8, n_estimator
s=200

[CV] bootstrap=True, max_depth=100, max_features=3,
min_samples_leaf=4, min_samples_split=12, n_estimato
rs=1000, total= 2.5s

[CV] bootstrap=True, max_depth=100, max_features=3,
min_samples_leaf=5, min_samples_split=8, n_estimator
s=200

[CV] bootstrap=True, max_depth=100, max_features=3,
min_samples_leaf=5, min_samples_split=8, n_estimator
s=200, total= 0.5s

[CV] bootstrap=True, max_depth=100, max_features=3,
min_samples_leaf=5, min_samples_split=8, n_estimator
s=300

[CV] bootstrap=True, max_depth=100, max_features=3,
min_samples_leaf=4, min_samples_split=12, n_estimato
rs=1000, total= 2.5s

[CV] bootstrap=True, max_depth=100, max_features=3,
min_samples_leaf=5, min_samples_split=8, n_estimator
s=300

[CV] bootstrap=True, max_depth=100, max_features=3,
min_samples_leaf=4, min_samples_split=12, n_estimato
rs=1000, total= 2.5s

[CV] bootstrap=True, max_depth=100, max_features=3,
min_samples_leaf=5, min_samples_split=8, n_estimator
s=300

[CV] bootstrap=True, max_depth=100, max_features=3,
min_samples_leaf=5, min_samples_split=8, n_estimator
s=200, total= 0.5s

[CV] bootstrap=True, max_depth=100, max_features=3,
min_samples_leaf=5, min_samples_split=8, n_estimator
s=1000

[CV] bootstrap=True, max_depth=100, max_features=3,
min_samples_leaf=5, min_samples_split=8, n_estimator
s=300, total= 0.8s

[CV] bootstrap=True, max_depth=100, max_features=3,
min_samples_leaf=5, min_samples_split=8, n_estimator
s=1000

[CV] bootstrap=True, max_depth=100, max_features=3,
min_samples_leaf=5, min_samples_split=8, n_estimator
s=300, total= 0.8s

[CV] bootstrap=True, max_depth=100, max_features=3,
min_samples_leaf=5, min_samples_split=8, n_estimator
s=1000

[CV] bootstrap=True, max_depth=100, max_features=3,
min_samples_leaf=5, min_samples_split=8, n_estimator
s=300, total= 0.9s

[CV] bootstrap=True, max_depth=100, max_features=3,
min_samples_leaf=5, min_samples_split=10, n_estimato
rs=100

[CV] bootstrap=True, max_depth=100, max_features=3,
min_samples_leaf=5, min_samples_split=10, n_estimato
rs=100, total= 0.2s

[CV] bootstrap=True, max_depth=100, max_features=3,
min_samples_leaf=5, min_samples_split=10, n_estimato
rs=100

[CV] bootstrap=True, max_depth=100, max_features=3,
min_samples_leaf=5, min_samples_split=10, n_estimato
rs=100, total= 0.2s

[CV] bootstrap=True, max_depth=100, max_features=3,
min_samples_leaf=5, min_samples_split=10, n_estimato
rs=100

[CV] bootstrap=True, max_depth=100, max_features=3,
min_samples_leaf=5, min_samples_split=10, n_estimato
rs=100, total= 0.2s

[CV] bootstrap=True, max_depth=100, max_features=3,
min_samples_leaf=5, min_samples_split=10, n_estimato
rs=200

[CV] bootstrap=True, max_depth=100, max_features=3,
min_samples_leaf=5, min_samples_split=10, n_estimato
rs=200, total= 0.5s

[CV] bootstrap=True, max_depth=100, max_features=3,
min_samples_leaf=5, min_samples_split=10, n_estimators=200

[CV] bootstrap=True, max_depth=100, max_features=3,
min_samples_leaf=5, min_samples_split=8, n_estimators=1000, total= 2.5s

[CV] bootstrap=True, max_depth=100, max_features=3,
min_samples_leaf=5, min_samples_split=10, n_estimators=200

[CV] bootstrap=True, max_depth=100, max_features=3,
min_samples_leaf=5, min_samples_split=10, n_estimators=200, total= 0.5s

[CV] bootstrap=True, max_depth=100, max_features=3,
min_samples_leaf=5, min_samples_split=10, n_estimators=300

[CV] bootstrap=True, max_depth=100, max_features=3,
min_samples_leaf=5, min_samples_split=8, n_estimators=1000, total= 2.7s

[CV] bootstrap=True, max_depth=100, max_features=3,
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[CV] bootstrap=True, max_depth=100, max_features=3,
min_samples_leaf=5, min_samples_split=10, n_estimators=200, total= 0.6s

[CV] bootstrap=True, max_depth=100, max_features=3,
min_samples_leaf=5, min_samples_split=10, n_estimators=300

[CV] bootstrap=True, max_depth=100, max_features=3,
min_samples_leaf=5, min_samples_split=8, n_estimators=1000, total= 2.5s

[CV] bootstrap=True, max_depth=100, max_features=3,
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[CV] bootstrap=True, max_depth=100, max_features=3,
min_samples_leaf=5, min_samples_split=10, n_estimators=300, total= 0.8s

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min_samples_leaf=5, min_samples_split=10, n_estimators=1000

[CV] bootstrap=True, max_depth=100, max_features=3,
min_samples_leaf=5, min_samples_split=10, n_estimators=300, total= 0.8s

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min_samples_leaf=5, min_samples_split=10, n_estimators=1000

[CV] bootstrap=True, max_depth=100, max_features=3,
min_samples_leaf=5, min_samples_split=10, n_estimators=300, total= 0.8s

[CV] bootstrap=True, max_depth=100, max_features=3,
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[CV] bootstrap=True, max_depth=100, max_features=3,
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[CV] bootstrap=True, max_depth=100, max_features=3,
min_samples_leaf=5, min_samples_split=12, n_estimators=100

[CV] bootstrap=True, max_depth=100, max_features=3,
min_samples_leaf=5, min_samples_split=12, n_estimators=100, total= 0.3s

[CV] bootstrap=True, max_depth=100, max_features=3,
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[CV] bootstrap=True, max_depth=100, max_features=3,
min_samples_leaf=5, min_samples_split=12, n_estimators=100, total= 0.2s

[CV] bootstrap=True, max_depth=100, max_features=3,
min_samples_leaf=5, min_samples_split=12, n_estimators=200

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min_samples_leaf=5, min_samples_split=12, n_estimators=200, total= 0.5s

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[CV] bootstrap=True, max_depth=100, max_features=3,
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min_samples_leaf=5, min_samples_split=12, n_estimators=200

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min_samples_leaf=5, min_samples_split=10, n_estimators=1000, total= 2.6s

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min_samples_leaf=5, min_samples_split=12, n_estimators=200, total= 0.5s

[CV] bootstrap=True, max_depth=100, max_features=3,
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[Parallel(n_jobs=-1)]: Done 640 tasks | elapsed
: 2.9min

[CV] bootstrap=True, max_depth=100, max_features=3,
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min_samples_leaf=5, min_samples_split=12, n_estimators=300, total= 0.8s

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min_samples_leaf=5, min_samples_split=12, n_estimators=300, total= 0.8s

[CV] bootstrap=True, max_depth=110, max_features=2,
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min_samples_leaf=3, min_samples_split=8, n_estimators

s=100, total= 0.2s
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rs=200, total= 0.5s
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rs=200, total= 0.5s
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s=200, total= 0.5s
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s=200
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s=200
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min_samples_leaf=3, min_samples_split=8, n_estimators=1000, total= 2.5s
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min_samples_leaf=3, min_samples_split=12, n_estimators=200

rs=200, total= 0.5s
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min_samples_leaf=5, min_samples_split=12, n_estimators=200, total= 0.5s
[CV] bootstrap=True, max_depth=110, max_features=3,
min_samples_leaf=5, min_samples_split=12, n_estimators=200
[CV] bootstrap=True, max_depth=110, max_features=3,
min_samples_leaf=5, min_samples_split=10, n_estimators=1000, total= 2.6s
[CV] bootstrap=True, max_depth=110, max_features=3,
min_samples_leaf=5, min_samples_split=12, n_estimators=200
[CV] bootstrap=True, max_depth=110, max_features=3,
min_samples_leaf=5, min_samples_split=12, n_estimators=200, total= 0.5s
[CV] bootstrap=True, max_depth=110, max_features=3,
min_samples_leaf=5, min_samples_split=12, n_estimators=300
[CV] bootstrap=True, max_depth=110, max_features=3,
min_samples_leaf=5, min_samples_split=10, n_estimators=1000, total= 2.7s
[CV] bootstrap=True, max_depth=110, max_features=3,
min_samples_leaf=5, min_samples_split=12, n_estimators=300
[CV] bootstrap=True, max_depth=110, max_features=3,
min_samples_leaf=5, min_samples_split=12, n_estimators


```
rs=200, total=    0.6s
[CV] bootstrap=True, max_depth=110, max_features=3,
min_samples_leaf=5, min_samples_split=12, n_estimators=300
[CV] bootstrap=True, max_depth=110, max_features=3,
min_samples_leaf=5, min_samples_split=10, n_estimators=1000, total=    2.7s
[CV] bootstrap=True, max_depth=110, max_features=3,
min_samples_leaf=5, min_samples_split=12, n_estimators=1000
[CV] bootstrap=True, max_depth=110, max_features=3,
min_samples_leaf=5, min_samples_split=12, n_estimators=300, total=    0.8s
[CV] bootstrap=True, max_depth=110, max_features=3,
min_samples_leaf=5, min_samples_split=12, n_estimators=1000
[CV] bootstrap=True, max_depth=110, max_features=3,
min_samples_leaf=5, min_samples_split=12, n_estimators=300, total=    0.8s
[CV] bootstrap=True, max_depth=110, max_features=3,
min_samples_leaf=5, min_samples_split=12, n_estimators=1000
[CV] bootstrap=True, max_depth=110, max_features=3,
min_samples_leaf=5, min_samples_split=12, n_estimators=300, total=    0.8s
[CV] bootstrap=True, max_depth=110, max_features=3,
min_samples_leaf=5, min_samples_split=12, n_estimators=1000, total=    2.0s
[CV] bootstrap=True, max_depth=110, max_features=3,
min_samples_leaf=5, min_samples_split=12, n_estimators=1000, total=    2.0s
[CV] bootstrap=True, max_depth=110, max_features=3,
min_samples_leaf=5, min_samples_split=12, n_estimators=1000, total=    2.0s

[Parallel(n_jobs=-1)]: Done 864 out of 864 | elapsed
: 4.0min finished
```

Out[195]:

```
GridSearchCV(cv=3, error_score='raise',
             estimator=RandomForestClassifier(bootstrap=True,
             class_weight=None, criterion='gini',
             max_depth=None, max_features='auto', max_
             _leaf_nodes=None,
             min_impurity_decrease=0.0, min_impurity_
             split=None,
             min_samples_leaf=1, min_samples_split=2,
             min_weight_fraction_leaf=0.0, n_estimators=10, n_jobs=1,
             oob_score=False, random_state=None, verbose=0,
             warm_start=False),
             fit_params=None, iid=True, n_jobs=-1,
             param_grid={'bootstrap': [True], 'max_depth':
             [80, 90, 100, 110], 'max_features': [2, 3], 'min_samples_
             leaf': [3, 4, 5], 'min_samples_split': [8, 10,
             12], 'n_estimators': [100, 200, 300, 1000]},
             pre_dispatch='2*n_jobs', refit=True, return_train_score='warn',
             scoring=None, verbose=2)
```

In [196]:

```
grid_search.best_params_
```

Out[196]:

```
{'bootstrap': True,
 'max_depth': 100,
 'max_features': 2,
 'min_samples_leaf': 3,
 'min_samples_split': 8,
 'n_estimators': 100}
```

In [148]:

```
print("====CONFUSION MATRIX====")
print(confusion_matrix(y_test, forest.predict(X_test)))
print('\n')

print("====CLASSIFICATION REPORT====")
print(classification_report(y_test, forest.predict(X_test)))
print('\n')

print("AUC SCORES")
print(forest_cv_score)
print('\n')
print("MEAN AUC SCORES")
print("Mean AUC Score - Random Forest: ", forest_cv_score.mean()
)
```

====CONFUSION MATRIX====

```
[[14  0  0]
 [ 2 13  1]
 [ 0  0  6]]
```

====CLASSIFICATION REPORT====

	precision	recall	f1-score	support
0	0.88	1.00	0.93	14
1	1.00	0.81	0.90	16
2	0.86	1.00	0.92	6
avg / total	0.93	0.92	0.92	36

AUC SCORES

```
[0.89473684 0.88888889 1.          0.94444444 0.94444
444 1.
 1.          1.          0.94117647 1.          ]
```

MEAN AUC SCORES

Mean AUC Score - Random Forest: 0.9613691090471276

In []:

```
#
```

In [199]:

```
#
```

In [201]:

```
#grid_search= GridSearchCV(SVC(), grid, cv = 10, return_train_score = True)  
#print(grid_search)
```

In [202]:

```
scores = cross_val_score(logreg, wine.data, wine.target)  
print("Cross-validation scores:{}".format(scores))  
print()  
scores = cross_val_score(logreg, wine.data, wine.target, cv = 5)  
print("Cross-validation scores:{}".format(scores))  
print()  
print("Average cross-validation score:{:.2f}".format(scores.mean()  
()))
```

```
Cross-validation scores:[0.86666667 0.95      1.  
]
```

```
Cross-validation scores:[0.91891892 0.94444444 0.944  
44444 1.      1.      ]
```

```
Average cross-validation score:0.96
```

In [203]:

```
kfold = KFold(n_splits = 5)
scores = cross_val_score(logreg, wine.data, wine.target, cv = kfold)
print()
print("Cross-validation scores:\n{}".format(scores))
kfold = KFold(n_splits = 3)
scores = cross_val_score(logreg, wine.data, wine.target, cv = kfold)
print()
print("Cross-validation scores:\n{}".format(scores))
kfold = KFold(n_splits=3, shuffle=True, random_state=0)
scores = cross_val_score(logreg, wine.data, wine.target, cv=kfold)
print()
print("Cross-validation scores: \n{}".format(scores))
```

Cross-validation scores:

```
[0.91666667 0.91666667 0.88888889 0.94285714 1.
]
```

Cross-validation scores:

```
[0.01666667 0.69491525 0.18644068]
```

Cross-validation scores:

```
[0.95          0.91525424 0.96610169]
```

In [204]:

```
loo = LeaveOneOut()
scores = cross_val_score(logreg, wine.data, wine.target, cv=loo)
print("Number of cv iterations: ", len(scores))
print("Mean accuracy: {:.2f}".format(scores.mean()))
```

Number of cv iterations: 178

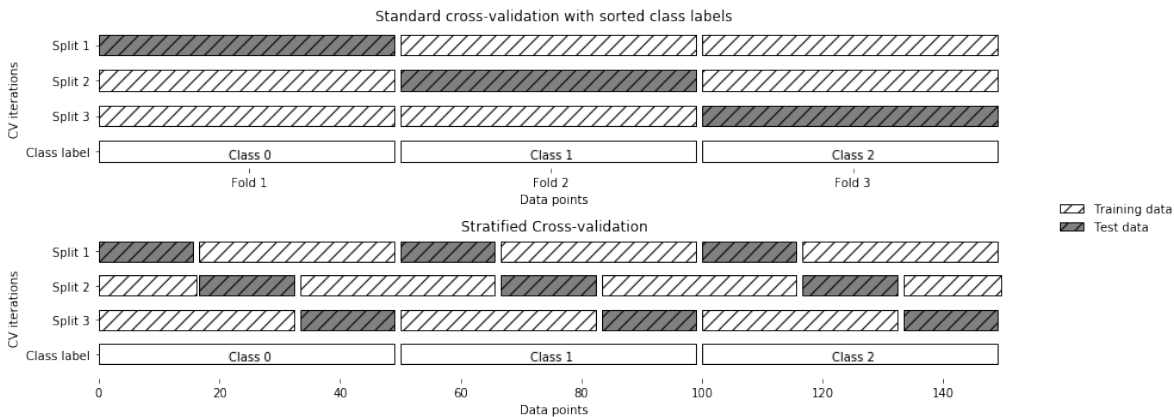
Mean accuracy: 0.96

In [205]:

```
print("Wine labels:\n{}".format(wine.target))
mglearn.plots.plot_stratified_cross_validation()
```

Wine labels:

```
[0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
0 0 0 0 0 0 0 0 0 0 0 0 0
 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 1 1 1 1
1 1 1 1 1 1 1 1 1 1 1 1 1
 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
1 1 1 1 1 1 1 1 1 1 1 1 1
 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 2 2 2 2 2 2 2
2 2 2 2 2 2 2 2 2 2 2 2 2
 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2
2 2 2 2]
```



In [207]:

```
#split data into train & validation & test
X_trainval, X_test, y_trainval, y_test = train_test_split(wine.d
ata, wine.target,

random_state
=0)

#split train & validation into train & validation
X_train, X_valid, y_train, y_valid = train_test_split(X_trainval
, y_trainval,

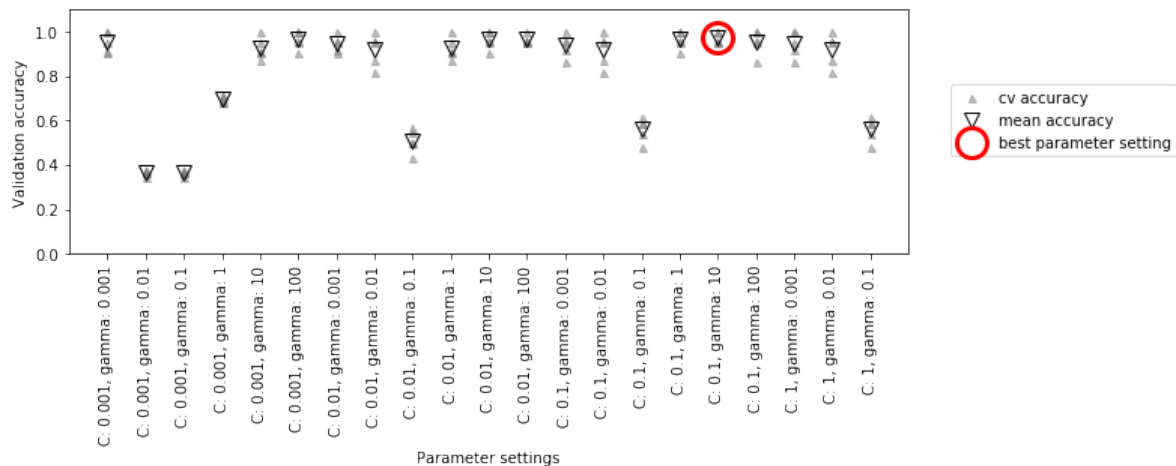
random_state
=1)

print("Size of training set: {} size of validation set: {}
size of tets set:"
      "{}\n".format(X_train.shape[0], X_valid.shape[0], X_test.s
hape[0]))
best_score=0
for gamma in [0.001, 0.01, 0.1, 1, 10, 100]:
    for C in [0.001, 0.01, 0.1, 1, 10, 100]:
        #for each combination of parameters, train an SVC
        svm = SVC(gamma=gamma, C=C)
        #perform cross-validation
        scores = cross_val_score(svm, X_trainval, y_trainval, cv
=5)

        #compute mean cross-validation accuracy
        score = np.mean(scores)
        # if get better score, store score and parameters
        if score > best_score:
            best_score = score
            best_parameters = {'C':C, 'gamma':gamma}

# rebuild a model on the combined training and validation set,
# and evalaute it on the test set
svm = SVC(**best_parameters)
svm.fit(X_trainval, y_trainval)
mglearn.plots.plot_cross_val_selection()
```

Size of training set: 99 size of validation set: 34
size of tets set:45



In [209]:

```
rf=RandomForestClassifier()  
rf.fit(X_train, y_train)  
rf.fit(X_test, y_test)  
rf.fit(X_trainval, y_trainval)
```

Out[209]:

```
RandomForestClassifier(bootstrap=True, class_weight=  
None, criterion='gini',  
                        max_depth=None, max_features='auto', max  
_leaf_nodes=None,  
                        min_impurity_decrease=0.0, min_impurity_  
split=None,  
                        min_samples_leaf=1, min_samples_split=2,  
                        min_weight_fraction_leaf=0.0, n_estimato  
rs=10, n_jobs=1,  
                        oob_score=False, random_state=None, verb  
ose=0,  
                        warm_start=False)
```


In [212]:

```
print("Accuracy on training set (Final RF): {:.3f}".format(rf.s  
core(X_train, y_train)))  
print("Accuracy on training set (Final RF): {:.3f}".format(rf.s  
core(X_trainval, y_trainval)))  
print("Accuracy on test set (Final RF): {:.3f}".format(rf.score  
(X_test, y_test)))
```

Accuracy on training set (Final RF): 1.000

Accuracy on training set (Final RF): 1.000

Accuracy on test set (Final RF): 0.978