Elo Challenge - Final Notebook for Group Presentation

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1. Introduction

This notebook provides an overview of possible problem-solving approaches to solve the ELO Challenge. The underlying chapters can be accessed via a click on the the Table of Content above. The report commences with an introduction of the challenge of the competition and an overview of the provided data sets for a better understanding. Due to the immense size of certain data sets, they will be comprised before an Exploratory Data Analysis (EDA) is performed. After analyzing the different data sets, data preprocessing and data cleaning will be performed before data models will be applied. This report illustrates different models that are used to fit the data: Linear Regression, Ridge Regression, Lasso, Decision Tree Regressor and Random Forest.

1.1 Understanding the Challenge of the Competition

The Objective of the challenge is to "identify and serve the most relevant opportunities to individuals, by uncovering signals in customer loyalty" (see https://www.kaggle.com/c/elo-merchant-category-recommendation#description (https://www.kaggle.com/c/elo-merchant-category-recommendation#description)). Hence, the aim is to predict the loyalty score for each card_id which is represented in the test.csv and sample_submission.csv. This shall help Elo to create the desired experience for its customers and avoid ineffective customer campaigns by targeting in the right way.

1.2 Understanding the Meaning of the Data

First we wanted to understand better which datasets are provided in order to solve the challenge of Elo. We therefore looked at all data sets and the description provided on Kaggle.

Description of the csv-files (Kaggle website):

- train.csv - the training set
- test.csv - the test set
- sample_submission.csv - a sample submission file in the correct format with all card_ids we want to predict for
- historical_transactions.csv - up to 3 months worth of historical transactions for each card_id
- merchants.csv - additional information about all merchants / merchant_ids in the dataset
- new_merchant_transactions.csv - two months worth of data for each card_id containing all purchases that card_id made at merchant_ids that were not visited in the historical data
- Data_Dictionary.xlsl - description of each column in the provided datasets

Before we started loading and exploring the data sets, we wanted to understand the provided sample submission in order to know right from the beginning what the scope of the Elo Challenge is and where our analysis and data modeling should lead us to.

```
In [2]:  import pandas as pd
         sample_submission = pd.read_csv("../loecher/public/sample_submissio
         n.csv.gz")
         print(sample_submission.head())
         print('Shape of sample_submission: ', sample_submission.shape)
```

```
            card_id  target
0  C_ID_0ab67a22ab       0
1  C_ID_130fd0cbdd       0
2  C_ID_b709037bc5       0
3  C_ID_d27d835a9f       0
4  C_ID_2b5e3df5c2       0
Shape of sample_submission:  (123623, 2)
```

We can see that our result should be a csv file that contains all card_ids we want to predict the loyalty score ("target") for. In total we need to provide 123.623 data entries. Our submissions will then be scored on the root mean squared error (RMSE) to evaluate our performance in the leaderboard.

2. Data Loading

First we imported relevant libraries for our analysis (additional packages will be imported later on).

```
In [3]:  import numpy as np # linear algebra
         import pandas as pd # data processing, CSV file I/O (e.g. pd.read_c
         sv)
         import os
         import matplotlib.pyplot as plt
         import seaborn as sns
         import warnings
         sns.set(style="darkgrid")

         from sklearn.linear_model import LinearRegression
         from sklearn.model_selection import KFold
         from sklearn.model_selection import train_test_split
         from sklearn.metrics import mean_squared_error

         warnings.filterwarnings('ignore')
```

Considering the memory limitations, we need to reduce the size of historical_transactions. It is the biggest dataset in this Kernel. Inspired by Fabien Kernel, we decrease the size of our data to prevent a probable memory overflow.

```python
In [4]: def reduce_mem_usage(df, verbose=True):
            numerics = ['int16', 'int32', 'int64', 'float16', 'float32', 'f
        loat64']
            start_mem = df.memory_usage().sum() / 1024**2
            for col in df.columns:
                col_type = df[col].dtypes
                if col_type in numerics:
                    c_min = df[col].min()
                    c_max = df[col].max()
                    if str(col_type)[:3] == 'int':
                        if c_min > np.iinfo(np.int8).min and c_max < np.iin
        fo(np.int8).max:
                            df[col] = df[col].astype(np.int8)
                        elif c_min > np.iinfo(np.int16).min and c_max < np.
        iinfo(np.int16).max:
                            df[col] = df[col].astype(np.int16)
                        elif c_min > np.iinfo(np.int32).min and c_max < np.
        iinfo(np.int32).max:
                            df[col] = df[col].astype(np.int32)
                        elif c_min > np.iinfo(np.int64).min and c_max < np.
        iinfo(np.int64).max:
                            df[col] = df[col].astype(np.int64)
                    else:
                        if c_min > np.finfo(np.float16).min and c_max < np.
        finfo(np.float16).max:
                            df[col] = df[col].astype(np.float16)
                        elif c_min > np.finfo(np.float32).min and c_max < n
        p.finfo(np.float32).max:
                            df[col] = df[col].astype(np.float32)
                        else:
                            df[col] = df[col].astype(np.float64)
            end_mem = df.memory_usage().sum() / 1024**2
            if verbose: print('Mem. usage decreased to {:5.2f} Mb ({:.1f}%
        reduction)'.format(end_mem, 100 * (start_mem - end_mem) / start_mem
        ))
            return df
```

After reducing the datasets, we could read the data into a Pandas DataFrame. The result below shows the percentage in reduction of the relevant datasets as well as the heads of the different datasets for a better understanding.

In [5]:
```python
df_train = reduce_mem_usage(pd.read_csv("../loecher/public/train.cs
v.gz",parse_dates=["first_active_month"]))
df_test = reduce_mem_usage(pd.read_csv("../loecher/public/test.csv.
gz",parse_dates=["first_active_month"]))
df_hist_trans = reduce_mem_usage(pd.read_csv("../loecher/public/his
torical_transactions.csv.gz",parse_dates=["purchase_date"]))
df_new_merchant_trans = reduce_mem_usage(pd.read_csv("../loecher/pu
blic/new_merchant_transactions.csv.gz",parse_dates=["purchase_date"
]))
df_merchants = reduce_mem_usage(pd.read_csv("../loecher/public/merc
hants.csv.gz"))
```

```
Mem. usage decreased to  4.04 Mb (56.2% reduction)
Mem. usage decreased to  2.24 Mb (52.5% reduction)
Mem. usage decreased to 1749.11 Mb (43.7% reduction)
Mem. usage decreased to 114.20 Mb (45.5% reduction)
Mem. usage decreased to 30.32 Mb (46.0% reduction)
```

In [6]:
```python
print("Training Data Sample");display(df_train.head())
print("Test Data Sample");display(df_test.head())
print("Merchant Data Sample");display(df_merchants.head())
print("Historical Transactions Sample");display(df_hist_trans.head(
))
print("New Merchant Transactions Sample");display(df_new_merchant_t
rans.head())
```

```
Training Data Sample
```

	first_active_month	card_id	feature_1	feature_2	feature_3	target
0	2017-06-01	C_ID_92a2005557	5	2	1	-0.820312
1	2017-01-01	C_ID_3d0044924f	4	1	0	0.392822
2	2016-08-01	C_ID_d639edf6cd	2	2	0	0.687988
3	2017-09-01	C_ID_186d6a6901	4	3	0	0.142456
4	2017-11-01	C_ID_cdbd2c0db2	1	3	0	-0.159790

```
Test Data Sample
```

	first_active_month	card_id	feature_1	feature_2	feature_3
0	2017-04-01	C_ID_0ab67a22ab	3	3	1
1	2017-01-01	C_ID_130fd0cbdd	2	3	0
2	2017-08-01	C_ID_b709037bc5	5	1	1
3	2017-12-01	C_ID_d27d835a9f	2	1	0
4	2015-12-01	C_ID_2b5e3df5c2	5	1	1

```
Merchant Data Sample
```

	merchant_id	merchant_group_id	merchant_category_id	subsector_id	numerical_1
0	M_ID_838061e48c	8353	792	9	-0.057465
1	M_ID_9339d880ad	3184	840	20	-0.057465
2	M_ID_e726bbae1e	447	690	1	-0.057465
3	M_ID_a70e9c5f81	5026	792	9	-0.057465
4	M_ID_64456c37ce	2228	222	21	-0.057465

5 rows × 22 columns

Historical Transactions Sample

	authorized_flag	card_id	city_id	category_1	installments	category_3	merchar
0	Y	C_ID_4e6213e9bc	88	N	0	A	
1	Y	C_ID_4e6213e9bc	88	N	0	A	
2	Y	C_ID_4e6213e9bc	88	N	0	A	
3	Y	C_ID_4e6213e9bc	88	N	0	A	
4	Y	C_ID_4e6213e9bc	88	N	0	A	

New Merchant Transactions Sample

	authorized_flag	card_id	city_id	category_1	installments	category_3	merchar
0	Y	C_ID_415bb3a509	107	N	1	B	
1	Y	C_ID_415bb3a509	140	N	1	B	
2	Y	C_ID_415bb3a509	330	N	1	B	
3	Y	C_ID_415bb3a509	-1	Y	1	B	
4	Y	C_ID_ef55cf8d4b	-1	Y	1	B	

We can see that the traning and test dataset both have three features with numerical values besides the card_id, first_active_month and the target variable. The other datasets (merchant, historical_transactions and new_merchants) contain more columns with both, categorical and continuous variables. An in-depth analysis will be provided in the next chapter.

Before we started the Exploratory Data Analyis (EDA), we defined a function to check missing values and yield the percentage of missing values and columns as seen below.

```
In [7]: def missing_values(df):
            total_miss = df.isnull().sum()
            perc_miss = 100 * total_miss / len(df)
            table_miss = pd.concat([total_miss, perc_miss], axis = 1)
            ren_table = table_miss.rename(columns = {0:'Total Miss Values',
        1: '% of miss values'})
            ren_table = ren_table[ren_table.iloc[:,1]!=0].sort_values('% of
        miss values', ascending = False).round(2)

            print('You data contains {}'.format(df.shape[1]) + ' columns an
        d has {}'.format(ren_table.shape[0]) + ' colums with missing values
        ' )

            return ren_table
```

```
In [8]: print('Train Data');display(missing_values(df_train))
        print('Test Data');display(missing_values(df_test))
        print('New Merchants');display(missing_values(df_new_merchant_trans
        ))
        print('Historical Transactions');display(missing_values(df_hist_tra
        ns))
        print('Merchants');display(missing_values(df_merchants))
```

```
Train Data
You data contains 6 columns and has 0 colums with missing values
```

	Total Miss Values	% of miss values

```
Test Data
You data contains 5 columns and has 1 colums with missing values
```

	Total Miss Values	% of miss values
first_active_month	1	0.0

```
New Merchants
You data contains 14 columns and has 3 colums with missing values
```

	Total Miss Values	% of miss values
category_2	111745	5.69
category_3	55922	2.85
merchant_id	26216	1.34

```
Historical Transactions
You data contains 14 columns and has 3 colums with missing values
```

	Total Miss Values	% of miss values
category_2	2652864	9.11
category_3	178159	0.61
merchant_id	138481	0.48

```
Merchants
You data contains 22 columns and has 4 colums with missing values
```

	Total Miss Values	% of miss values
category_2	11887	3.55
avg_sales_lag3	13	0.00
avg_sales_lag6	13	0.00
avg_sales_lag12	13	0.00

The result shows that the train dataset has no missing values and the test dataset has one missing value in the column first_active_month. New_merchants and historical_transactions both consist of 14 columns and have missing values in the columns category_2, category_3 and merchant_id. The merchant dataset has in total 22 columns out of which 4 contain missing values: category_2, avg_sales_lag3, avg_sales_lag6 and avg_sales_lag12.

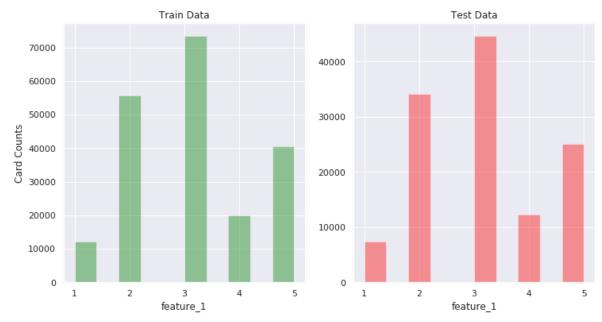# 3. Exploratory Data Analysis of Datasets

After loading the datasets and checking for missing values with started with our in-depth Exploratory Data Analysis (EDA). The first part of this chapter takes a closer look on the train and test datasets, while the second part will analyze the other datasets in detail.

3.1 Exploration of Train and Test Data

We checked if the distribution of the train and test datasets is similar which can be seen below. To analyze this we looked at the three features individually and compared them for each dataset.
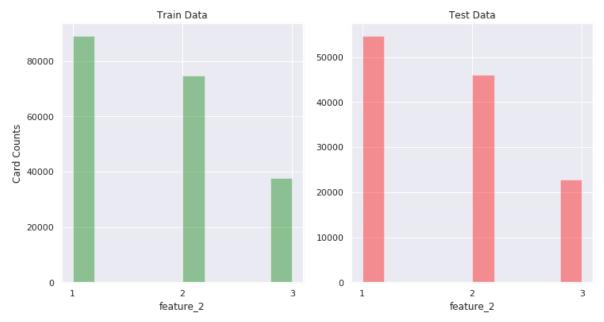
In [9]:
```python
# Feature 1
f, axes = plt.subplots(1, 2, figsize=(12,6))
sns.distplot( df_train.feature_1,ax=axes[0], kde = False, color = '
green', bins=10).set_title("Train Data")

sns.distplot( df_test.feature_1,ax=axes[1], kde = False, color = 'r
ed', bins=10).set_title("Test Data")
axes[0].set(ylabel='Card Counts')
f.suptitle('feature_1 Distributions: Training Data and Test Data')
axes[0].set_xticks(np.arange(1,6,1))
axes[1].set_xticks(np.arange(1,6,1))
plt.show()
```

feature_1 Distributions: Training Data and Test Data

In [10]:
```python
# Feature 2
f, axes = plt.subplots(1, 2, figsize=(12,6))
sns.distplot( df_train.feature_2,ax=axes[0], kde = False, color = '
green', bins=10).set_title("Train Data")

sns.distplot( df_test.feature_2,ax=axes[1], kde = False, color = 'r
ed', bins=10).set_title("Test Data")
axes[0].set(ylabel='Card Counts')
f.suptitle('feature_2 Distributions: Training Data and Test Data')
axes[0].set_xticks(np.arange(1,4,1))
axes[1].set_xticks(np.arange(1,4,1))
plt.show()
```

feature_2 Distributions: Training Data and Test Data

In [11]:
```python
# Feature 3
f, axes = plt.subplots(1, 2, figsize=(12,6))
sns.distplot( df_train.feature_3,ax=axes[0], kde = False, color = '
green', bins=10).set_title("Train Data")

sns.distplot( df_test.feature_3,ax=axes[1], kde = False, color = 'r
ed', bins=10).set_title("Test Data")
axes[0].set(ylabel='Card Counts')
f.suptitle('feature_3 Distributions: Training Data and Test Data')
axes[0].set_xticks(np.arange(1,2,1))
axes[1].set_xticks(np.arange(1,2,1))
plt.show()
```

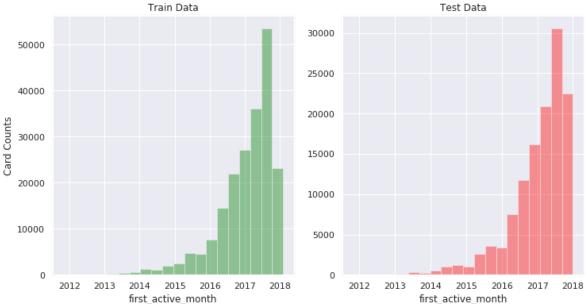feature_3 Distributions: Training Data and Test Data

The graphs per feature above show the values they can take and their distribution. We can see that we have the same distribution among train and test data, just with a different amount of card counts. Next, we plotted the first_active_month feature and replaced one missing value.

In [12]:
```python
# First_active_month
# Method='ffill' option. 'ffill' stands for 'forward fill' and will
propagate the last valid observation forward.
f, axes = plt.subplots(1, 2, figsize=(12,6))
df_test['first_active_month'] = df_test['first_active_month'] .fill
na(axis=0, method='ffill')
sns.distplot( df_train.first_active_month,ax=axes[0], kde = False,
color = 'green', bins=20).set_title("Train Data")
sns.distplot( df_test.first_active_month,ax=axes[1], kde = False, c
olor = 'red', bins=20).set_title("Test Data")
axes[0].set(ylabel='Card Counts')
f.suptitle('first_active_month Distributions: Training Data and Tes
t Data')

plt.show()
```
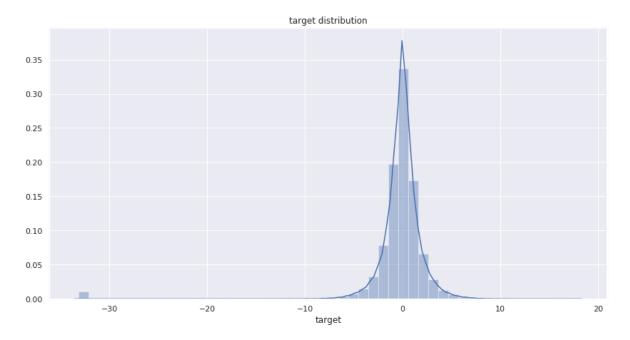
Then we looked at the card_id and used describe() for both, train and test card_ids. The result below shows that there are no duplicate values.

```
In [13]: print(df_train.card_id.describe())
         print('=='*18)
         print(df_test.card_id.describe())
```

```
count                 201917
unique                201917
top        C_ID_925d946642
freq                       1
Name: card_id, dtype: object
==================================
count                 123623
unique                123623
top        C_ID_0316fd7257
freq                       1
Name: card_id, dtype: object
```
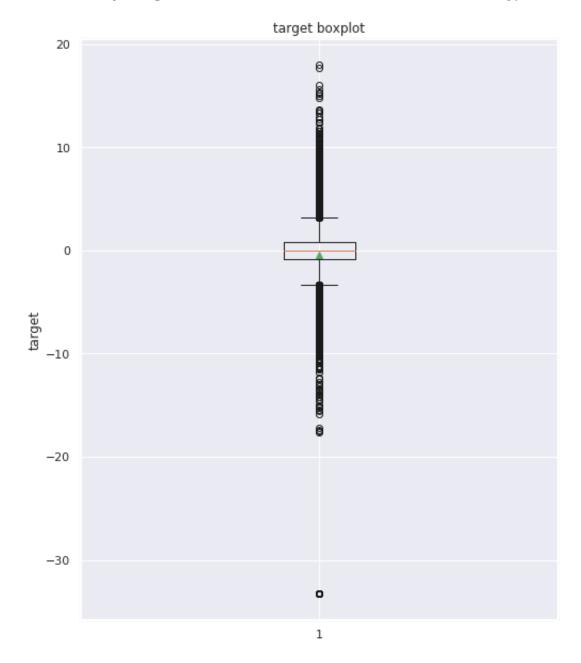
Since we only have the target variable in the train data, we then had a look at the distribution of the target variable of the train data. The graph below visualizes this distribution - first as a distribution plot, then as a boxplot.

```
In [14]: f, ax = plt.subplots(figsize=(14, 7))
         sns.distplot(df_train.target)
         plt.title('target distribution')
```

Out[14]: Text(0.5,1,'target distribution')

In [15]:
```python
fig, axes = plt.subplots(nrows=1, ncols=1, figsize=(8,10))
axes.set_title("target boxplot")
axes.set_ylabel("target")
axes.boxplot(list(df_train["target"].values),showmeans=True)
```

Out[15]:
```
{'whiskers': [<matplotlib.lines.Line2D at 0x7f6854b38cc0>,
  <matplotlib.lines.Line2D at 0x7f687b5a81d0>],
 'caps': [<matplotlib.lines.Line2D at 0x7f687b5a8630>,
  <matplotlib.lines.Line2D at 0x7f687b5a8a90>],
 'boxes': [<matplotlib.lines.Line2D at 0x7f6854b38b38>],
 'medians': [<matplotlib.lines.Line2D at 0x7f687b5a8ef0>],
 'fliers': [<matplotlib.lines.Line2D at 0x7f687b5b07b8>],
 'means': [<matplotlib.lines.Line2D at 0x7f687b5b0390>]}
```
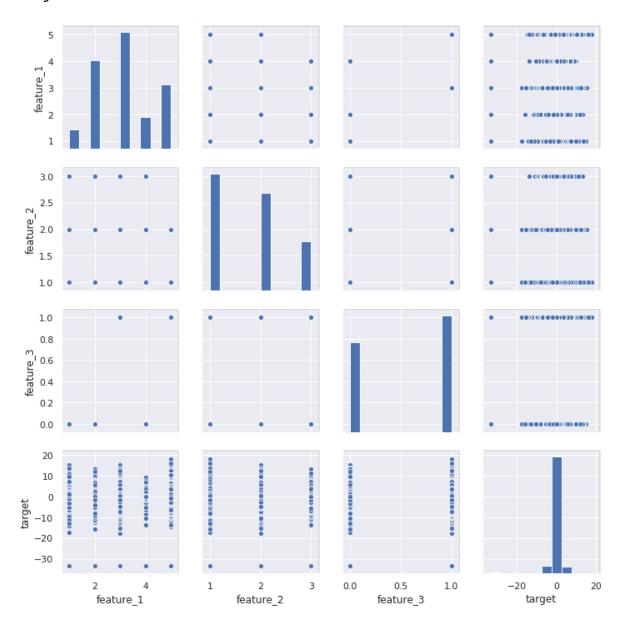
The visualizations before have shown that feature_1, feature_2, feature_3 and first_active month have similar distributions in the train and test data. Now, let us use a the seaborn pairplot to quickly check if any of the input variables in the training data are clearly correlated with the target variable.

```
In [16]: plt.figure(figsize=(12,8))
         sns.pairplot(df_train.loc[:,df_train.columns != 'card_id'])
```

Out[16]: <seaborn.axisgrid.PairGrid at 0x7f687aef12e8>

         <Figure size 864x576 with 0 Axes>

In the pairplots above we can see that there is no collinearity between the features.

A plot of the dependent variable against the independent one is illustrated below (full sample).
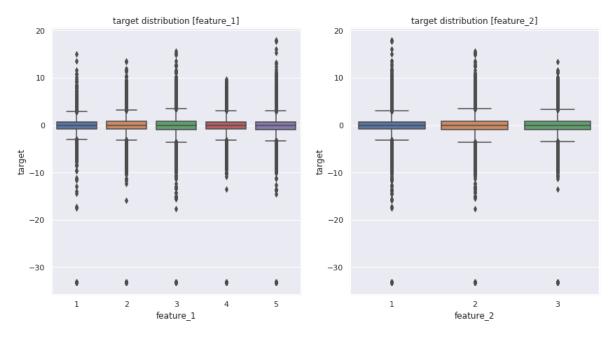
```
In [17]:  #plotting feature_1 - feature_2 vs target
          fig, ((ax1, ax2)) = plt.subplots(nrows=1, ncols=2, figsize=(14,7))

          fig = sns.boxplot(x='feature_1', y='target', data=df_train,ax=ax1)
          ax1.set_title('target distribution [feature_1]')

          sns.boxplot(x='feature_2', y='target', data=df_train,ax=ax2)
          ax2.set_title('target distribution [feature_2]')

          #plotting feature_1 - feature_2 vs target
          fig = plt.subplots(nrows=1, ncols=1, figsize=(7,7))
          fig = sns.boxplot(x='feature_3', y='target', data=df_train)
          plt.title('target distribution [feature_3]')
```
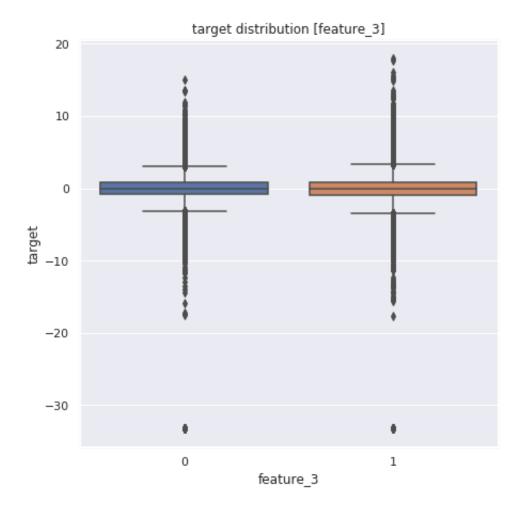
Out[17]: Text(0.5,1,'target distribution [feature_3]')

target distribution [feature_3]

The three plots visualize that for all three feature values the median of the target variable lays around 0.

3.2 Exploration of other Data Sources

3.2.1 Merchant.csv

To analyze the other datasets besides the train and test data, we first took a closer look at the merchant file. In the following cells we analyzed different columns together as the next steps will show in detail.

In [18]: `df_merchants.head()`

Out[18]:

	merchant_id	merchant_group_id	merchant_category_id	subsector_id	numerical_1
0	M_ID_838061e48c	8353	792	9	-0.057465
1	M_ID_9339d880ad	3184	840	20	-0.057465
2	M_ID_e726bbae1e	447	690	1	-0.057465
3	M_ID_a70e9c5f81	5026	792	9	-0.057465
4	M_ID_64456c37ce	2228	222	21	-0.057465

5 rows × 22 columns

1.MERCHANT_GROUP_ID & MERCHANT_CATEGORY_ID & SUBSCTOR_ID

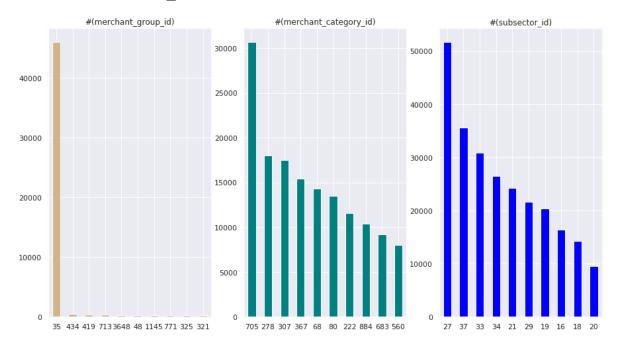First we visualized the following columns together:

- merchant_group_id: Merchant group (anonymized)
- merchant_category_id: Unique identifier for merchant category (anonymized)
- subsector_id: Merchant category group (anonymized)

In [19]: `df_merchants[["merchant_group_id","merchant_category_id","subsector_id"]].head()`

Out[19]:

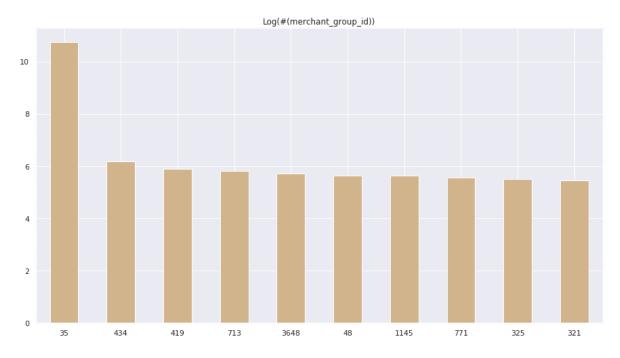|	merchant_group_id	merchant_category_id	subsector_id
0	8353	792	9
1	3184	840	20
2	447	690	1
3	5026	792	9
4	2228	222	21

```
In [20]: fig,axes = plt.subplots(1,3,figsize=(15,8))
         df_merchants["merchant_group_id"].value_counts()[:10].plot(kind="ba
         r",ax = axes[0],
                                                            title="#
         (merchant_group_id)",
                                                            rot=0,co
         lor="tan")
         df_merchants["merchant_category_id"].value_counts()[:10].plot(kind=
         "bar",ax=axes[1],
                                                            title
         ="#(merchant_category_id)",
                                                            rot=0
         ,color="teal")
         df_merchants["subsector_id"].value_counts()[:10].plot(kind="bar",ax
         =axes[2],
                                                            title="#(subs
         ector_id)",
                                                            rot=0,color="
         blue")
```

Out[20]: <matplotlib.axes._subplots.AxesSubplot at 0x7f68e0db47f0>

Because the merchant_group_id has a skewed distribution, we will change the plot using the np.log()
function to generalize the values and get the right distribution.

```
In [21]: fig = plt.subplots(1,figsize=(15,8))
         np.log(df_merchants["merchant_group_id"].value_counts()[:10]).plot(
         kind="bar",
                                                         title="L
         og(#(merchant_group_id))",
                                                         rot=0,co
         lor="tan")
```

Out[21]: <matplotlib.axes._subplots.AxesSubplot at 0x7f684dabe710>

Log(#(merchant_group_id))

2. NUMERICAL_1 & NUMERICAL_2

Then we visualized the numerical columns of:

- numerical_1: anonymized measure
- numerical_2: anonymized measure

```
In [22]: df_merchants[["numerical_1","numerical_2"]].head()
```

Out[22]:

	numerical_1	numerical_2
0	-0.057465	-0.057465
1	-0.057465	-0.057465
2	-0.057465	-0.057465
3	-0.057465	-0.057465
4	-0.057465	-0.057465

```
In [23]:  pd.concat([df_merchants["numerical_1"],df_merchants["numerical_2"]]
          ,axis=1).describe()
```

Out[23]:

	numerical_1	numerical_2
count	334696.000000	334696.000000
mean	0.000000	0.000000
std	0.000000	0.000000
min	-0.057465	-0.057465
25%	-0.057465	-0.057465
50%	-0.057465	-0.057465
75%	-0.047546	-0.047546
max	183.750000	182.125000

3. CATEGORY_1 & CATEGORY_2 & CATEGORY_4

Next, we looked at the different categories:

- category_1: anonymized category
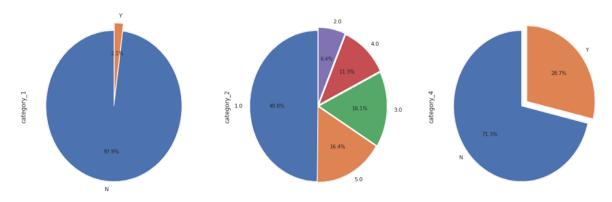- category_2: anonymized category
- category_4: anonymized category

```
In [24]:  df_merchants[["category_1","category_2","category_4"]].head()
```

Out[24]:

	category_1	category_2	category_4
0	N	1.0	N
1	N	1.0	N
2	N	5.0	N
3	Y	NaN	Y
4	Y	NaN	Y

```
In [25]: fig,axes = plt.subplots(1,3,figsize=(21,7))
         df_merchants["category_1"].value_counts().plot(kind="pie",explode=(
         0,0.1),
                                                    autopct='%1.1f%%',sh
         adow=False,
                                                    startangle=90,ax=axe
         s[0])
         df_merchants["category_2"].value_counts().plot(kind="pie",explode=(
         0,0.01,0.02, 0.03, 0.04),
                                                    autopct='%1.1f%%',sh
         adow=False,
                                                    startangle=90,ax=axe
         s[1])
         df_merchants["category_4"].value_counts().plot(kind="pie",explode=(
         0,0.1),
                                                    autopct='%1.1f%%',sh
         adow=False,
                                                    startangle=90,ax=axe
         s[2])
```

Out[25]: <matplotlib.axes._subplots.AxesSubplot at 0x7f685b90fe10>

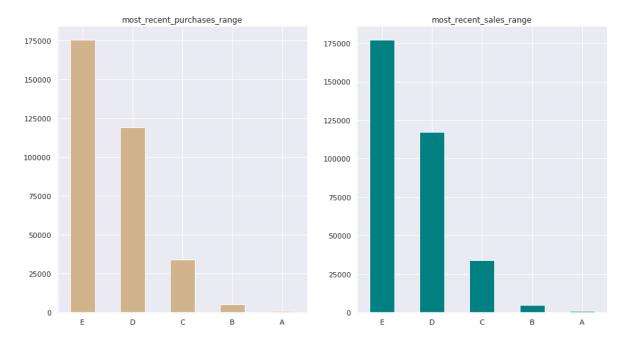## 4. MOST_RECENT_SALES_RANGE & MOST_RECENT_PURCHASE_RANGE

The next cells provide a visualization of sales and purchase ranges:

- most_recent_sales_range: Range of revenue (monetary units) in last active month --> A > B > C > D > E
- most_recent_purchases_range: Range of quantity of transactions in last active month --> A > B > C > D > E

In [26]:
```python
df_merchants[["most_recent_purchases_range", "most_recent_sales_range"]].head()
```

Out[26]:

	most_recent_purchases_range	most_recent_sales_range
0	E	E
1	E	E
2	E	E
3	E	E
4	E	E

In [27]:
```python
fig,axes = plt.subplots(1,2,figsize=(15,8))
df_merchants["most_recent_purchases_range"].value_counts().plot(kind="bar",ax = axes[0],

title="most_recent_purchases_range",

rot=0,color="tan")
df_merchants["most_recent_sales_range"].value_counts().plot(kind="bar",ax=axes[1],
                                                            title
="most_recent_sales_range",
                                                            rot=0
,color="teal")
```

Out[27]: <matplotlib.axes._subplots.AxesSubplot at 0x7f687c65b8d0>

5. CITY_ID & STATE_ID

After the sales and purchase ranges, we analyzed city and state identifier columns:
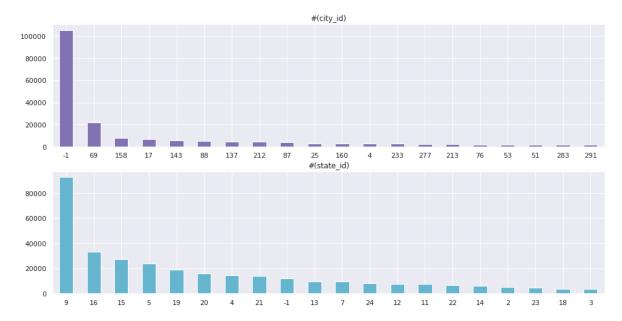
- city_id: City identifier (anonymized)
- state_id: State identifier (anonymized)

In [28]: `df_merchants[["city_id","state_id"]].head()`

Out[28]:

	city_id	state_id
0	242	9
1	22	16
2	-1	5
3	-1	-1
4	-1	-1

5. CITY_ID & STATE_ID

In [29]:
```python
#city_id & #state_id
fig,axes = plt.subplots(2,1,figsize=(16,8))
df_merchants["city_id"].value_counts()[:20].plot(kind="bar",
                                                    title="#(c
ity_id)",
                                                    rot=0,ax=a
xes[0],color="m")
df_merchants["state_id"].value_counts()[:20].plot(kind="bar",
                                                    title="#(state
_id)",
                                                    rot=0,ax=axes[
1],color="c")
```

Out[29]: <matplotlib.axes._subplots.AxesSubplot at 0x7f6893928978>

Because city_id and state_id also have a skewed distribution, we will here also change the plot using the np.log() function to generale the values and get the right distribution.

In [30]:
```python
#city_id & #state_id
fig,axes = plt.subplots(2,1,figsize=(16,8))
np.log(df_merchants["city_id"].value_counts()[:20]).plot(kind="bar"
,
                                                        title="Log
(#(city_id))",
                                                        rot=0,ax=a
xes[0],color="m")
np.log(df_merchants["state_id"].value_counts()[:20]).plot(kind="bar
",
                                                        title="Log#(st
ate_id))",
                                                        rot=0,ax=axes[
1],color="c")
```

Out[30]: <matplotlib.axes._subplots.AxesSubplot at 0x7f68ae27f588>

6. AVG_SALES_LAG3 & AVG_SALES_LAG6 & AVG_SALES_LAG12

In the next two cells we investigated the average revenue columns of:

- avg_sales_lag3: Monthly average of revenue in last 3 months divided by revenue in last active month
- avg_sales_lag6: Monthly average of revenue in last 6 months divided by revenue in last active month
- avg_sales_lag12: Monthly average of revenue in last 12 months divided by revenue in last active month

```
In [31]:  df_merchants[["avg_sales_lag3","avg_sales_lag6","avg_sales_lag12"]]
          .head()
```

Out[31]:

	avg_sales_lag3	avg_sales_lag6	avg_sales_lag12
0	-0.400000	-2.250000	-2.320000
1	-0.720000	-0.740000	-0.570000
2	-82.129997	-82.129997	-82.129997
3	NaN	NaN	NaN
4	NaN	NaN	NaN

```
In [32]:  df_merchants[["avg_sales_lag3","avg_sales_lag6","avg_sales_lag12"]]
          .describe()
```

Out[32]:

	avg_sales_lag3	avg_sales_lag6	avg_sales_lag12
count	334683.000000	3.346830e+05	3.346830e+05
mean	13.832988	2.165079e+01	2.522771e+01
std	2395.489990	3.947108e+03	5.251842e+03
min	-82.129997	-8.213000e+01	-8.213000e+01
25%	0.880000	8.500000e-01	8.500000e-01
50%	1.000000	1.010000e+00	1.020000e+00
75%	1.160000	1.230000e+00	1.290000e+00
max	851844.625000	1.513959e+06	2.567408e+06

7. AVG_PURCHASES_LAG3 & AVG_PURCHASES_LAG6 & AVG_PURCHASES_LAG12

There are three different columns for the monthly average of transactions as illustrated in the next two cells:

- avg_purchases_lag3: Monthly average of transactions in last 3 months divided by transactions in last active month
- avg_purchases_lag6: Monthly average of transactions in last 6 months divided by transactions in last active month
- avg_purchases_lag12: Monthly average of transactions in last 12 months divided by transactions in last active month

```
In [33]: df_merchants[["avg_purchases_lag3","avg_purchases_lag6","avg_purcha
         ses_lag12"]].head()
```

Out[33]:

	avg_purchases_lag3	avg_purchases_lag6	avg_purchases_lag12
0	9.666667	18.666667	13.916667
1	1.750000	1.291667	1.687500
2	260.000000	260.000000	260.000000
3	1.666667	4.666667	3.833333
4	0.500000	0.361111	0.347222

```
In [34]: df_merchants[["avg_purchases_lag3","avg_purchases_lag6","avg_purcha
         ses_lag12"]].describe()
```

Out[34]:

	avg_purchases_lag3	avg_purchases_lag6	avg_purchases_lag12
count	3.346960e+05	3.346960e+05	3.346960e+05
mean	inf	inf	inf
std	NaN	NaN	NaN
min	3.334953e-01	1.670447e-01	9.832954e-02
25%	9.236499e-01	9.022475e-01	8.983333e-01
50%	1.016667e+00	1.026961e+00	1.043361e+00
75%	1.146522e+00	1.215575e+00	1.266480e+00
max	inf	inf	inf

3.2.2 History_transactions.csv

After analyzing the merchant file we explored the history_transactions file also by analyzing different columns.

In [35]: `df_hist_trans.head()`

Out[35]:

	authorized_flag	card_id	city_id	category_1	installments	category_3	merchan
0	Y	C_ID_4e6213e9bc	88	N	0	A	
1	Y	C_ID_4e6213e9bc	88	N	0	A	
2	Y	C_ID_4e6213e9bc	88	N	0	A	
3	Y	C_ID_4e6213e9bc	88	N	0	A	
4	Y	C_ID_4e6213e9bc	88	N	0	A	

In [36]: `df_hist_trans.isna().sum()`

Out[36]:
```
authorized_flag              0
card_id                      0
city_id                      0
category_1                   0
installments                 0
category_3              178159
merchant_category_id         0
merchant_id             138481
month_lag                    0
purchase_amount              0
purchase_date                0
category_2             2652864
state_id                     0
subsector_id                 0
dtype: int64
```

1. AUTHORIZED_FLAG - Y' if approved, 'N' if denied

We first analyzed category 1-3 by considerung Y for approved and N for denied:
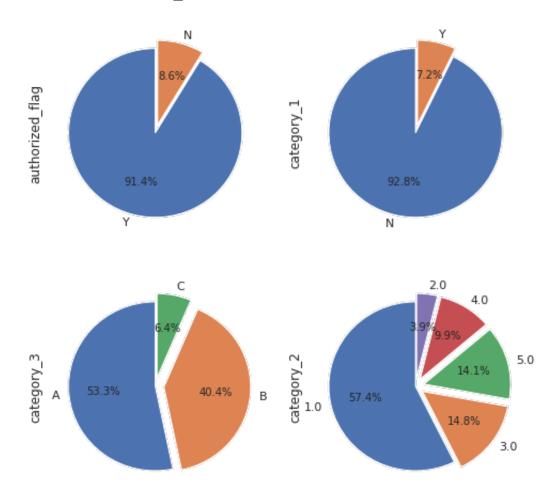
- CATEGORY_1 - anonymized category
- CATEGORY_2 - anonymized category
- CATEGORY_3 - anonymized category

In [37]:
```python
df_hist_trans[["authorized_flag", "category_1", "category_3", "category_2"]].head()
```

Out[37]:

	authorized_flag	category_1	category_3	category_2
0	Y	N	A	1.0
1	Y	N	A	1.0
2	Y	N	A	1.0
3	Y	N	A	1.0
4	Y	N	A	1.0

In [38]:
```python
fig,axes = plt.subplots(2,2,figsize=(8,8))
df_hist_trans["authorized_flag"].value_counts().plot(kind="pie",explode=(0,0.1),
                                                      autopct='%1.1f%%',shadow=False,
                                                      startangle=90,
ax=axes[0][0])
df_hist_trans["category_1"].value_counts().plot(kind="pie",explode=(0,0.1),
                                                autopct='%1.1f%%',shadow=False,
                                                startangle=90,ax=axes[0][1])
df_hist_trans["category_3"].value_counts().plot(kind="pie",explode=(0,0.1,0.1),
                                                autopct='%1.1f%%',shadow=False,
                                                startangle=90,ax=axes[1][0])
df_hist_trans["category_2"].value_counts().plot(kind="pie",explode=(0,0.1,0.1,0.1,0.1),
                                                autopct='%1.1f%%',shadow=False,
                                                startangle=90,ax=axes[1][1])
```

Out[38]: <matplotlib.axes._subplots.AxesSubplot at 0x7f68bc67ec88>

2. PURCHASE_AMOUNT

Next, we discovered the purchase amount of the file.
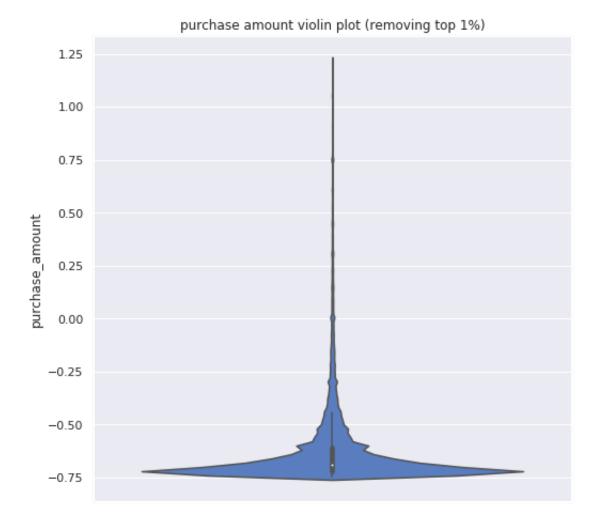
In [39]: ```
df_hist_trans.purchase_amount.describe()
```

Out[39]:
```
count   2.911236e+07
mean   3.640094e-02
std   1.123522e+03
min   -7.469078e-01
25%   -7.203559e-01
50%   -6.883495e-01
75%   -6.032543e-01
max   6.010604e+06
Name: purchase_amount, dtype: float64
```

```
In [40]: df_hist_trans.purchase_amount.head()
```

```
Out[40]: 0    -0.703331
         1    -0.733128
         2    -0.720386
         3    -0.735352
         4    -0.722865
         Name: purchase_amount, dtype: float32
```

There is a huge difference between the 75% percentile and the maximum. We can conclude that there is a peak which may not be related to normal activities. We want to get a 99% percentile in order to validate this.

```
In [41]: np.percentile(df_hist_trans["purchase_amount"].values,q=99)
```

```
Out[41]: 1.2208409547805337
```

The result shows that 99% of the purchase amounts are less than 1.22. Let's assume the remaining 1% are outliers and move to visualize it.

```
In [42]: fig, axes = plt.subplots(nrows=1, ncols=1, figsize=(8, 8))
         axes.set_title("purchase amount violin plot (removing top 1%)")
         axes.set_ylabel("purchase_amount")
         ax = sns.violinplot(y=list(df_hist_trans[df_hist_trans["purchase_am
         ount"] < np.percentile(df_hist_trans["purchase_amount"],99)]["purch
         ase_amount"]),showmeans=True,showmedians=True, palette="muted")
```

purchase amount violin plot (removing top 1%)

3. INSTALLMENTS

Then we explored the installments column.

In [43]:
```python
fig,axes = plt.subplots(1,1,figsize=(8,8))
axes.set_title("#(installments)")
axes.set_ylabel("#")
axes.set_xlabel("records")
df_hist_trans.installments.value_counts().plot(kind="bar",color="m"
)
```
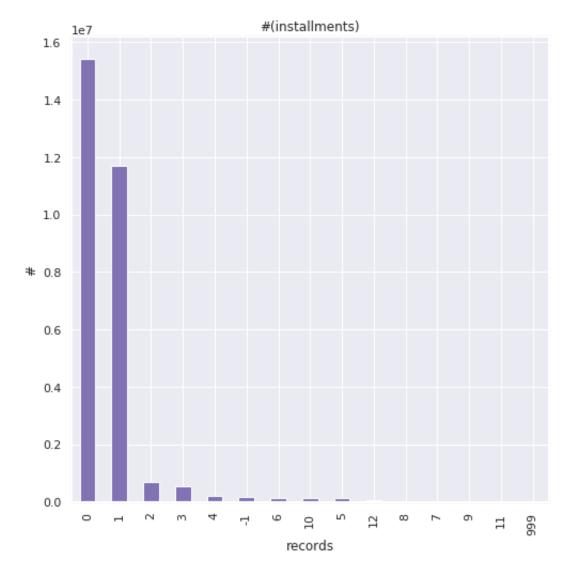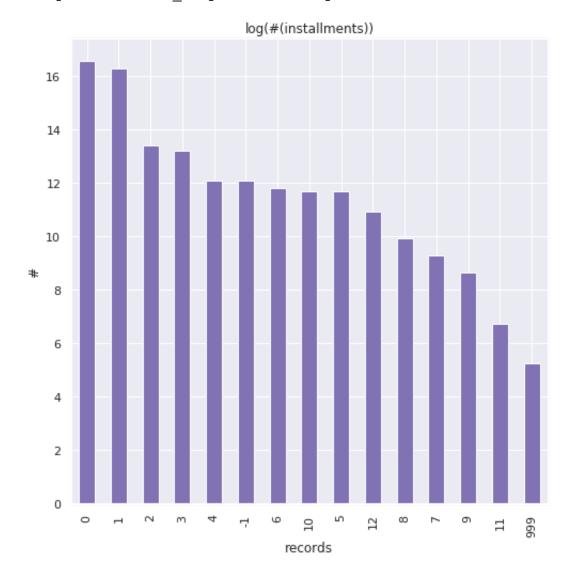
Out[43]: <matplotlib.axes._subplots.AxesSubplot at 0x7f68e6110b70>

Because of the skeweness, we use the np.log() function.

```
In [44]:  fig,axes = plt.subplots(1,1,figsize=(8,8))
          axes.set_title("log(#(installments))")
          axes.set_ylabel("#")
          axes.set_xlabel("records")
          np.log(df_hist_trans.installments.value_counts()).plot(kind="bar",c
          olor="m")
```

Out[44]: <matplotlib.axes._subplots.AxesSubplot at 0x7f68d658a8d0>

3.2.3 Feature Analysis

Next, we want to split the column purchase_date of history_transactions into year, month, day and hour because we have learned that this might improve our model performance later on.
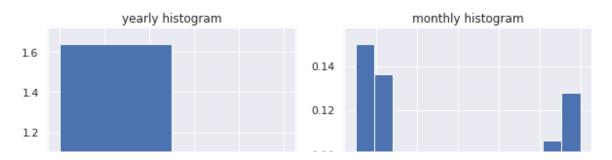
```
In [45]:  df_hist_trans.dtypes
```
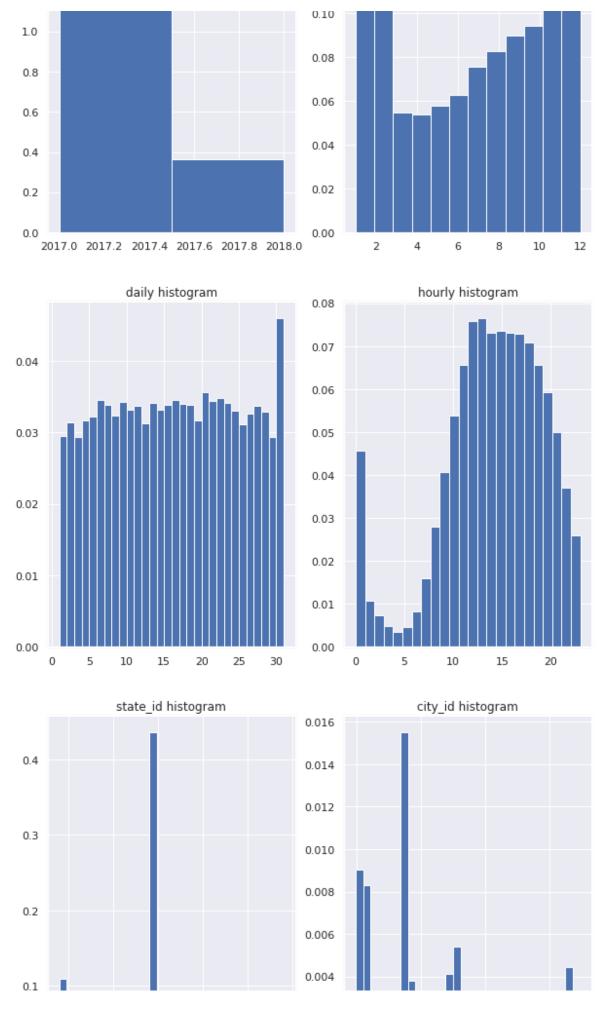
```
Out[45]:  authorized_flag                    object
          card_id                            object
          city_id                             int16
          category_1                         object
          installments                        int16
          category_3                         object
          merchant_category_id                int16
          merchant_id                        object
          month_lag                            int8
          purchase_amount                   float32
          purchase_date            datetime64[ns]
          category_2                        float16
          state_id                             int8
          subsector_id                         int8
          dtype: object
```
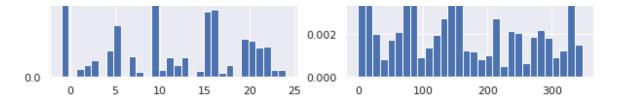
```python
In [46]:  from datetime import datetime
          df_hist_trans["year"] = df_hist_trans["purchase_date"].dt.year
          df_hist_trans["month"] = df_hist_trans["purchase_date"].dt.month
          df_hist_trans["day"] = df_hist_trans["purchase_date"].dt.day
          df_hist_trans["hour"] = df_hist_trans["purchase_date"].dt.hour
```
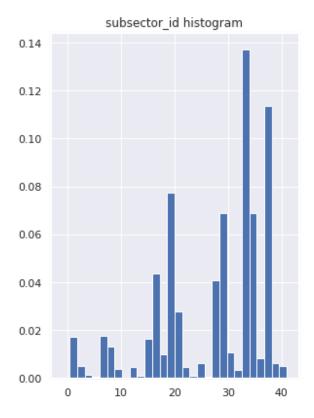
```python
In [47]:  fig,axes = plt.subplots(4,2,figsize=(10,30))
          axes[0][0].set_title("yearly histogram")
          axes[0][1].set_title("monthly histogram")
          axes[1][0].set_title("daily histogram")
          axes[1][1].set_title("hourly histogram")
          axes[2][0].set_title("state_id histogram")
          axes[2][1].set_title("city_id histogram")
          axes[3][0].set_title("subsector_id histogram")
          axes[3][1].remove()

          df_hist_trans.year.hist(ax=axes[0][0],normed=True,bins=2)
          df_hist_trans.month.hist(ax=axes[0][1],normed=True,bins=12)
          df_hist_trans.day.hist(ax=axes[1][0],normed=True,bins=30)
          df_hist_trans.hour.hist(ax=axes[1][1],normed=True,bins=24)
          df_hist_trans["state_id"].hist( bins=30,normed=True,ax=axes[2][0])
          df_hist_trans["city_id"].hist( bins=30,normed=True,ax=axes[2][1])
          df_hist_trans["subsector_id"].hist( bins=30,normed=True,ax=axes[3][
          0])
```

```
Out[47]:  <matplotlib.axes._subplots.AxesSubplot at 0x7f68c02d7748>
```

daily histogram

hourly histogram

state_id histogram

city_id histogram

subsector_id histogram

Although the daily histogram reveals that there is a uniform distribution for the historical data the hourly histogram shows that it could be useful data for our competition goal. City id, state id and also the subsector_id have an acceptable entropy and they may have considerable potential for enhacing the accuracy of model we want to fit later on.

The new_merchants dataset has the same columns as historical_transactions, therefore we decided to continue with Data Preprocessing in the next chapter and not analyze the new_merchant file separately.

4. Data Preprocessing

The data preprocessing was initiated with the history_transactions file.

In [48]: `df_hist_trans.head()`

Out[48]:

	authorized_flag	card_id	city_id	category_1	installments	category_3	merchan
0	Y	C_ID_4e6213e9bc	88	N	0	A	
1	Y	C_ID_4e6213e9bc	88	N	0	A	
2	Y	C_ID_4e6213e9bc	88	N	0	A	
3	Y	C_ID_4e6213e9bc	88	N	0	A	
4	Y	C_ID_4e6213e9bc	88	N	0	A	

Here, we mapped the column authorized_flag to numerical data (Y = 1, N = 0). And we created new features as aggregated data of the columns.

```
In [49]:   #extracting information from historical_df
           import gc;gc.collect()
           df_hist_trans['authorized_flag'] = df_hist_trans['authorized_flag']
           .map({'Y':1, 'N':0})
           def aggregate_historical_transactions(history):
               history.loc[:, 'purchase_date'] = pd.DatetimeIndex(history['pur
           chase_date']).astype(np.int64) * 1e-9

               agg_func = {
                   'authorized_flag': ['sum', 'mean'],
                   'merchant_id': ['nunique'],
                   'city_id': ['nunique'],
                   'state_id': ['nunique'],
                   'purchase_amount': ['sum', 'median', 'max', 'min', 'std'],
                   'installments': ['sum', 'median', 'max', 'min', 'std'],
                   'purchase_date': [np.ptp],
                   'month_lag': ['min', 'max'],
                   'year': ['nunique'],
                   'month': ['nunique'],
                   'day': ['nunique'],
                   'hour': ['nunique'],
                   'merchant_category_id': ['nunique'],
                   }
               agg_history = history.groupby(['card_id']).agg(agg_func)
               agg_history.columns = ['hist_' + '_'.join(col).strip()
                                       for col in agg_history.columns.values]
               agg_history.reset_index(inplace=True)

               df = (history.groupby('card_id')
                       .size()
                       .reset_index(name='hist_transactions_count'))

               agg_history = pd.merge(df, agg_history, on='card_id', how='left
           ')

               return agg_history

           new_history = aggregate_historical_transactions(df_hist_trans)
```

```
In [50]:   missing_values(new_history)
```

You data contains 25 columns and has 0 colums with missing values

Out[50]:

Total Miss Values	% of miss values

In [51]:
```python
new_history.head()
```

Out[51]:

	card_id	hist_transactions_count	hist_authorized_flag_sum	hist_authorized_flag_
0	C_ID_00007093c1	149	114	0.76
1	C_ID_0001238066	123	120	0.97
2	C_ID_0001506ef0	66	62	0.93
3	C_ID_0001793786	216	189	0.87
4	C_ID_000183fdda	144	137	0.95

5 rows × 25 columns

The same process as before was applied for the new_merchants dataset.

In [52]:
```python
df_new_merchant_trans['authorized_flag'] = df_new_merchant_trans['authorized_flag'].map({'Y':1, 'N':0})
def aggregate_new_transactions(new_trans):
    agg_func = {
        'authorized_flag': ['sum', 'mean'],
        'merchant_id': ['nunique'],
        'city_id': ['nunique'],
        'purchase_amount': ['sum', 'median', 'max', 'min', 'std'],
        'installments': ['sum', 'median', 'max', 'min', 'std'],
        'month_lag': ['min', 'max'],
        'subsector_id':['nunique'],
        'state_id':['nunique']
        }
    agg_new_trans = new_trans.groupby(['card_id']).agg(agg_func)
    agg_new_trans.columns = ['new_' + '_'.join(col).strip()
                            for col in agg_new_trans.columns.values]
    agg_new_trans.reset_index(inplace=True)

    df = (new_trans.groupby('card_id')
            .size()
            .reset_index(name='new_transactions_count'))

    agg_new_trans = pd.merge(df, agg_new_trans, on='card_id', how='left')

    return agg_new_trans

new_merchants = aggregate_new_transactions(df_new_merchant_trans)
```

In [53]: `missing_values(new_merchants)`

You data contains 20 columns and has 2 colums with missing values

Out[53]:

	Total Miss Values	% of miss values
new_purchase_amount_std	43010	14.83
new_installments_std	43010	14.83

In [54]: `new_merchants.head()`

Out[54]:

	card_id	new_transactions_count	new_authorized_flag_sum	new_authorized_flag
0	C_ID_00007093c1	2	2	
1	C_ID_0001238066	26	26	
2	C_ID_0001506ef0	2	2	
3	C_ID_0001793786	31	31	
4	C_ID_000183fdda	11	11	
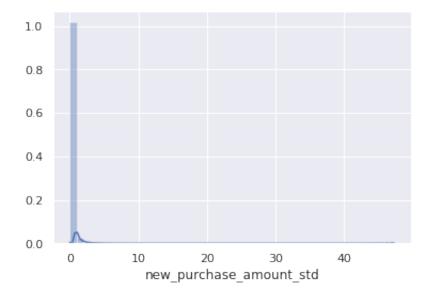
There is some missing values, which we can not drop totally, because they almost comprise 15% of the column. We will check the distribution without missing values and replace them with the mean as one options of how to deal with missing values.

In [55]: `sns.distplot(new_merchants['new_purchase_amount_std'].dropna())`

Out[55]: `<matplotlib.axes._subplots.AxesSubplot at 0x7f686926dc50>`

In [56]:
```python
sns.distplot(new_merchants['new_purchase_amount_std'].fillna(new_me
rchants['new_purchase_amount_std'].mean()))
```
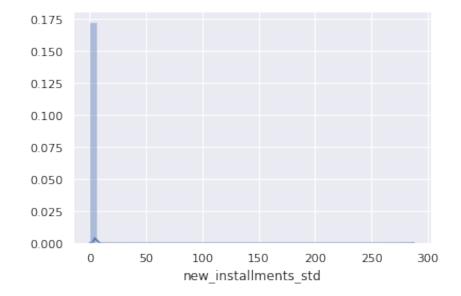
Out[56]: <matplotlib.axes._subplots.AxesSubplot at 0x7f68a8604f98>

It has the same distribution, hence it is possible to replace missing values with the mean.
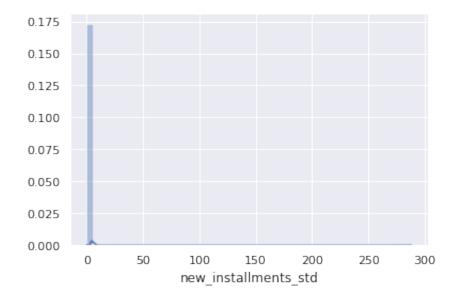
In [57]:
```python
sns.distplot(new_merchants['new_installments_std'].dropna())
```

Out[57]: <matplotlib.axes._subplots.AxesSubplot at 0x7f685f927588>

```
In [58]: sns.distplot(new_merchants['new_installments_std'].fillna(new_merch
         ants['new_installments_std'].mean()))
```

Out[58]: `<matplotlib.axes._subplots.AxesSubplot at 0x7f68bbc99470>`


```
In [59]: new_merchants['new_purchase_amount_std'] = new_merchants['new_purch
         ase_amount_std'].fillna(new_merchants['new_purchase_amount_std'].me
         an())
         new_merchants['new_installments_std'] = new_merchants['new_installm
         ents_std'].fillna(new_merchants['new_installments_std'].mean())
         missing_values(new_merchants)
```

You data contains 20 columns and has 0 colums with missing values

Out[59]:

Total Miss Values	% of miss values

2018.02.01 is the last date in the dataset. We will calculate the difference of each date and create new features from these calculations.

```
In [60]: from datetime import datetime
         df_train['elapsed_time'] = (datetime(2018, 2, 1) – df_train['first_
         active_month']).dt.days
         df_test['elapsed_time'] = (datetime(2018, 2, 1) – df_test['first_ac
         tive_month']).dt.days
```

In [61]: `df_train.head()`

Out[61]:

	first_active_month	card_id	feature_1	feature_2	feature_3	target	elapsed_
0	2017-06-01	C_ID_92a2005557	5	2	1	-0.820312	
1	2017-01-01	C_ID_3d0044924f	4	1	0	0.392822	
2	2016-08-01	C_ID_d639edf6cd	2	2	0	0.687988	
3	2017-09-01	C_ID_186d6a6901	4	3	0	0.142456	
4	2017-11-01	C_ID_cdbd2c0db2	1	3	0	-0.159790	

In [62]: `df_test.head()`

Out[62]:

	first_active_month	card_id	feature_1	feature_2	feature_3	elapsed_time
0	2017-04-01	C_ID_0ab67a22ab	3	3	1	306
1	2017-01-01	C_ID_130fd0cbdd	2	3	0	396
2	2017-08-01	C_ID_b709037bc5	5	1	1	184
3	2017-12-01	C_ID_d27d835a9f	2	1	0	62
4	2015-12-01	C_ID_2b5e3df5c2	5	1	1	793

Now we can merge the train data with historical_transactions and new_merchants. The same operations has been applied for the test data.

In [63]:
```
df_train = pd.merge(df_train, new_history, on='card_id', how='left'
)
df_test = pd.merge(df_test, new_history, on='card_id', how='left')

df_train = pd.merge(df_train, new_merchants, on='card_id', how='lef
t')
df_test = pd.merge(df_test, new_merchants, on='card_id', how='left'
)
```

In [64]: `df_train.shape, df_test.shape`

Out[64]: `((201917, 50), (123623, 49))`

In [65]: `missing_values(df_train)`

You data contains 50 columns and has 19 colums with missing values

Out[65]:

	Total Miss Values	% of miss values
new_transactions_count	21931	10.86
new_installments_sum	21931	10.86
new_subsector_id_nunique	21931	10.86
new_month_lag_max	21931	10.86
new_month_lag_min	21931	10.86
new_installments_std	21931	10.86
new_installments_min	21931	10.86
new_installments_max	21931	10.86
new_installments_median	21931	10.86
new_purchase_amount_std	21931	10.86
new_authorized_flag_sum	21931	10.86
new_purchase_amount_min	21931	10.86
new_purchase_amount_max	21931	10.86
new_purchase_amount_median	21931	10.86
new_purchase_amount_sum	21931	10.86
new_city_id_nunique	21931	10.86
new_merchant_id_nunique	21931	10.86
new_authorized_flag_mean	21931	10.86
new_state_id_nunique	21931	10.86

In the next cell we used LabelEncoder to deal with categorical variables. The LabelEncodder encodes labels with a value between 0 and n_classes-1 where n is the number of distinct labels. If a label repeats in the column it gets assigned the same value it has been as assigned earlier due to the learning process. We decided to not use One Hot Encoding (dummy variables) because we preferred to not create additional dummy columns / variables.

```python
In [66]:  # Categorizing feature_1 & feature_2 & feature_3
          from sklearn.preprocessing import LabelEncoder
          for col in ["feature_1", "feature_2","feature_3"]:
          #     print(col)
              lbl = LabelEncoder()
              lbl.fit(list(df_train[col].values.astype('str')) + list(df_test
          [col].values.astype('str')))
              df_train[col] = lbl.transform(list(df_train[col].values.astype(
          'str')))
              df_test[col] = lbl.transform(list(df_test[col].values.astype('s
          tr')))
```

We then dropped columns with low importance.

```python
In [67]:  df_train = df_train.drop(['first_active_month', 'card_id'], axis=1)
          df_train.head()
```

Out[67]:

	feature_1	feature_2	feature_3	target	elapsed_time	hist_transactions_count	hist_au
0	4	1	1	-0.820312	245	260	
1	3	0	0	0.392822	396	350	
2	1	1	0	0.687988	549	43	
3	3	2	0	0.142456	153	77	
4	0	2	0	-0.159790	92	133	

5 rows × 48 columns

The same was done for the test data, but we decided to save the card_id of the test data to use it for the submission and then only to drop it.
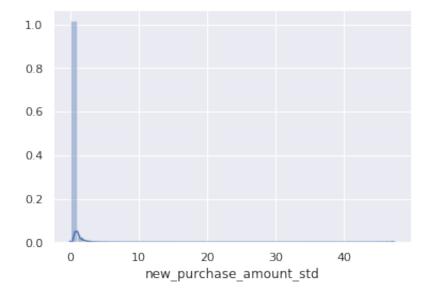
```python
In [68]:  df_test = df_test.drop(['first_active_month'], axis=1)
```

```
In [69]:  df_card = pd.DataFrame()
          df_card['card_id'] = df_test['card_id']
          df_card.head()
```

Out[69]:

	card_id
0	C_ID_0ab67a22ab
1	C_ID_130fd0cbdd
2	C_ID_b709037bc5
3	C_ID_d27d835a9f
4	C_ID_2b5e3df5c2

```
In [70]:  df_test = df_test.drop(['card_id'], axis=1)
```

```
In [71]:  df_train.shape, df_test.shape
```

Out[71]: ((201917, 48), (123623, 47))

5. Data Cleaning

After merging datasets, there are a lot of columns with missing values. As we did before we will check the distribution and replace them with different values. In the coming cells we first replaced missing values with the mean, other columns with the median and finally with the minimun value. In a first step this procedure was applied to the train data, afterwards to the test data.
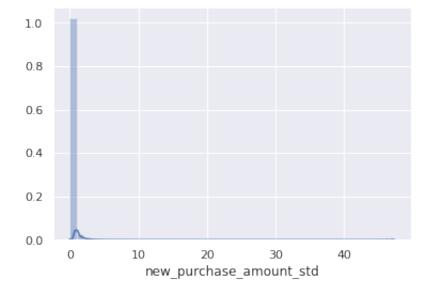
In [72]: `sns.distplot(df_train['new_purchase_amount_std'].dropna())`

Out[72]: `<matplotlib.axes._subplots.AxesSubplot at 0x7f68af83d2b0>`
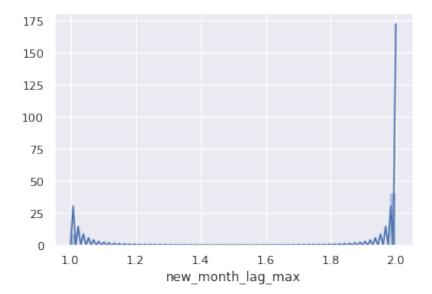
In [73]: `sns.distplot(df_train['new_purchase_amount_std'].fillna(df_train['new_purchase_amount_std'].mean()))`

Out[73]: `<matplotlib.axes._subplots.AxesSubplot at 0x7f68be7dc940>`

In [74]:
```python
# Fill with mean
def fill_mean(df):
    mean_col = ['new_purchase_amount_std','new_installments_std' ,
     'new_installments_sum','new_installments_max','new_installments_median']
    for col in mean_col:
        df[col] = df[col].fillna(df[col].mean())

fill_mean(df_train)
```
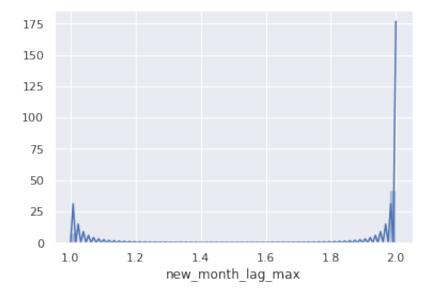
In [75]:
```
sns.distplot(df_train['new_month_lag_max'].dropna())
```

Out[75]: `<matplotlib.axes._subplots.AxesSubplot at 0x7f68b7bb26a0>`
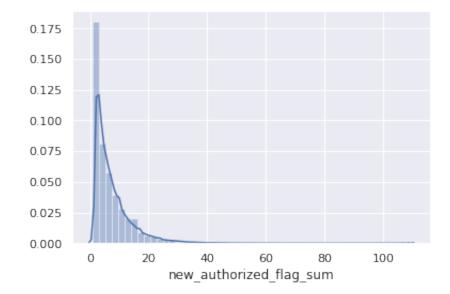
In [76]:
```
sns.distplot(df_train['new_month_lag_max'].fillna(df_train['new_mon
th_lag_max'].median()))
```

Out[76]: `<matplotlib.axes._subplots.AxesSubplot at 0x7f686bf75f28>`

In [77]:
```python
# Fill with median
def fill_median(df):
    median_col = ['new_month_lag_max','new_month_lag_min','new_inst
allments_min','new_purchase_amount_min',
                  'new_purchase_amount_max','new_purchase_amount_medi
an','new_purchase_amount_sum']
    for col in median_col:
        df[col] = df[col].fillna(df[col].median())

fill_median(df_train)
```
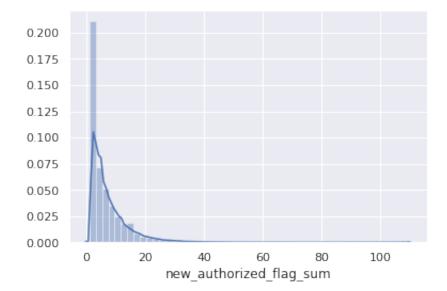
In [78]:
```python
sns.distplot(df_train['new_authorized_flag_sum'].dropna())
```

Out[78]: <matplotlib.axes._subplots.AxesSubplot at 0x7f68e52024a8>

In [77]:
```python
# Fill with median
def fill_median(df):
```

In [79]:
```
sns.distplot(df_train['new_authorized_flag_sum'].fillna(df_train['new_authorized_flag_sum'].min()))
```

Out[79]: `<matplotlib.axes._subplots.AxesSubplot at 0x7f68d0a39438>`

In [80]:
```python
# Fill with min
def fill_min(df):
    min_col = 'new_authorized_flag_sum','new_merchant_id_nunique','new_state_id_nunique',
        'new_transactions_count','new_subsector_id_nunique','new_city_id_nunique',
        'new_authorized_flag_mean'
        for col in min_col:
            df[col] = df[col].fillna(df[col].min())

fill_min(df_train)
missing_values(df_train)
```

You data contains 48 columns and has 4 colums with missing values

Out[80]:

	Total Miss Values	% of miss values
new_transactions_count	21931	10.86
new_authorized_flag_mean	21931	10.86
new_city_id_nunique	21931	10.86
new_subsector_id_nunique	21931	10.86

Unfortunately, for some columns the previous function did not replace the missing values, so we had to change this manually as highlighted below.

In [81]:
```python
df_train['new_transactions_count'] = df_train['new_transactions_cou
nt'].fillna(df_train['new_transactions_count'].min())
df_train['new_authorized_flag_mean'] = df_train['new_authorized_fla
g_mean'].fillna(df_train['new_authorized_flag_mean'].min())
df_train['new_city_id_nunique'] = df_train['new_city_id_nunique'].f
illna(df_train['new_city_id_nunique'].min())
df_train['new_subsector_id_nunique'] = df_train['new_subsector_id_n
unique'].fillna(df_train['new_subsector_id_nunique'].min())

missing_values(df_train)
```

You data contains 48 columns and has 0 colums with missing values

Out[81]:

	Total Miss Values	% of miss values

The same procedure was then applied to the test data.

In [82]:
```python
# REPEAT THE SAME FOR THE TEST SET
def fill_test(df):
    mean_col = ['new_purchase_amount_std','new_installments_std' ,
      'new_installments_sum','new_installments_max','new_installment
s_median']
    for col in mean_col:
        df[col] = df[col].fillna(df[col].mean())

    median_col = ['new_month_lag_max','new_month_lag_min','new_inst
allments_min','new_purchase_amount_min',
                  'new_purchase_amount_max','new_purchase_amount_medi
an','new_purchase_amount_sum']
    for col in median_col:
        df[col] = df[col].fillna(df[col].median())

    min_col = 'new_authorized_flag_sum','new_merchant_id_nunique','
new_state_id_nunique',
      'new_transactions_count','new_subsector_id_nunique','new_city_i
d_nunique',
      'new_authorized_flag_mean'
    for col in min_col:
        df[col] = df[col].fillna(df[col].min())

fill_test(df_test)
```

```
In [83]: df_test['new_transactions_count'] = df_test['new_transactions_count
         '].fillna(df_test['new_transactions_count'].min())
         df_test['new_authorized_flag_mean'] = df_test['new_authorized_flag_
         mean'].fillna(df_test['new_authorized_flag_mean'].min())
         df_test['new_city_id_nunique'] = df_test['new_city_id_nunique'].fil
         lna(df_test['new_city_id_nunique'].min())
         df_test['new_subsector_id_nunique'] = df_test['new_subsector_id_nun
         ique'].fillna(df_test['new_subsector_id_nunique'].min())

         missing_values(df_test)
```

You data contains 47 columns and has 0 colums with missing values

Out[83]:

Total Miss Values	% of miss values

Now, the data was prepared in order to create our models as the next chapter will show.

6. Models

As the underlying models we used Linear Regression, Ridge Regression, Lasso Regression, Decision Tree Regressor as well as Random Forest to fit our train data and predict on the test dataset. All approaches will be shown in more detail in this chapter. We decided to use these models to see how our model performs under different regression scenarios as well as different tree techniques and whether we can see a dominant distinction.

```
In [84]: y = df_train.target
         X = df_train.drop(['target'],axis=1)
```

```
In [85]: missing_values(df_train)
```

You data contains 48 columns and has 0 colums with missing values

Out[85]:

Total Miss Values	% of miss values

There is no target in the test dataset, therefore for prechecking the RMSE for each model, we decided to split the train data as the next cell emphasizes.

```
In [86]: #Import train_test_split from sklearn.model_selection to split data
         into train and test sets
         from sklearn.model_selection import train_test_split
         X_train, X_val, y_train, y_val = train_test_split(X, y, test_size=0
         .2, random_state=42)
```

```
In [87]: missing_values(df_test)
```

You data contains 47 columns and has 0 colums with missing values

Out[87]:

Total Miss Values	% of miss values

6.1 Linear Regression

Linear regression is a basic technique that makes sense for a first simple model. The simple function is Y = a + bX + ε. Linear Regression is a good step to achieve results quickly with a simple model.

```
In [88]: #Import the relevant package of sklearn.linear_model
         from sklearn.linear_model import LinearRegression

         # Fit the model with X_train and y_train and predict y_pred
         reg = LinearRegression()
         reg.fit(X_train, y_train)
         y_pred = reg.predict(X_val)
```

```
In [89]: #Import other packages to perform cross-validation and calculate th
         e estimated RMSE
         from sklearn.metrics import r2_score
         from sklearn.metrics import mean_squared_error
         from sklearn.model_selection import cross_val_score

         # Calculate the cross_val_score
         cv_reg = cross_val_score(reg, X_train, y_train, scoring="neg_mean_s
         quared_error", cv=10)
         rmse_scores = np.sqrt(-cv_reg)
         print(rmse_scores)
         print('Mean RMSE:',rmse_scores.mean())
```

```
[3.80616932 3.76066774 3.79494105 3.83931928 4.03689452 3.69777142
 3.658832   3.6010521  3.73986741 3.78149195]
Mean RMSE: 3.77170067916438
```

6.2 Ridge Regression

Ridge Regression is another technique that we applied. In general it is useful to analyze multiple regression data with multicollinearity problems.

```
In [90]:  #Import relevant packages for Ridge Regression
          from sklearn.linear_model import Ridge
          from sklearn.model_selection import GridSearchCV

          alphas = np.array([1,0.1,0.01,0.001,0.0001,0])

          # Do GridSearchCV to find the best params
          ridge = Ridge()
          cv_ridge = GridSearchCV(estimator=ridge, param_grid=dict(alpha=alph
          as), cv=5)
          cv_ridge.fit(X_train, y_train)
          print(cv_ridge.best_params_)
```

```
{'alpha': 0.0001}
```

```
In [91]:  #Apply the best alpha found by GridSearchCV
          ridge_new = Ridge(alpha=0.0001)
          ridge_new.fit(X_train, y_train)
          y_ridge_pred = ridge_new.predict(X_val)
          print('RMSE: ', np.sqrt(mean_squared_error(y_val, y_ridge_pred)))
          print('R-square: ', r2_score(y_val, y_ridge_pred))
```

```
RMSE:   3.79790929669516
R-square:   0.03975723539479259
```

6.3 Lasso Regression

The Lasso regression is the third regression method we applied. Generally it helps to shrink and select variables for linear regression models.

```
In [92]:  #Import the relevant packages
          from sklearn.linear_model import Lasso

          #Do GridSearchCV to find the best params
          lasso = Lasso()
          alphas = np.array([0.01, 0.1, 1, 10])
          cv_lasso = GridSearchCV(lasso, param_grid=dict(alpha=alphas), cv=3)
          cv_lasso.fit(X_train, y_train)
          cv_lasso.best_params_
```

```
Out[92]:  {'alpha': 0.01}
```

```
In [93]:  #Apply the best alpha found by GridSearchCV
          lasso_new = Lasso(alpha=0.01)
          lasso_new.fit(X_train, y_train)
          y_lasso_pred = lasso_new.predict(X_val)
          print('RMSE: ', np.sqrt(mean_squared_error(y_val, y_lasso_pred)))
          print('R-square: ', r2_score(y_val, y_lasso_pred))
```

```
RMSE:   3.798305282321537
R-square:   0.03955698724470613
```

6.4 Decision Tree Regressor

In Regression Trees target feature values can now take on an infinite number of continuously scaled values. Therefore we decided to apply the DecisionTreeRegressor as shown below.

```
In [94]:  #Import the relevant packages and fit the data
          from sklearn.tree import DecisionTreeRegressor
          from sklearn.model_selection import GridSearchCV
          from sklearn.metrics import mean_squared_error

          dt = DecisionTreeRegressor(max_depth=4,
                                     min_samples_split=5,
                                     max_leaf_nodes=10,
                                      random_state=42)
          dt.fit(X_train, y_train)
          y_val_pred = dt.predict(X_val)
          print('RMSE: ', np.sqrt(mean_squared_error(y_val, y_val_pred)))
          print('R-square: ', r2_score(y_val, y_val_pred))
```

```
RMSE:   3.7900860916515033
R-square:   0.04370911438628766
```

Similarly as in the previos models, we wanted to tune the parameters with Grid Search Cross Validation. Cross-validation is a method for robustly estimating the test-set performance (generalization) of our model.

```
In [95]:  # Apply GridSearchCV to find best params
          from sklearn.model_selection import GridSearchCV


          param_grid = {"criterion": ["mse"],
                        "min_samples_split": [10, 20, 40],
                        "max_depth": [2, 6, 8],
                        "min_samples_leaf": [20, 40, 100],
                        "max_leaf_nodes": [5, 20, 100],
                       }

          grid_cv_dtm = GridSearchCV(dt, param_grid, cv=5)

          grid_cv_dtm.fit(X_train,y_train)
```

```
Out[95]:  GridSearchCV(cv=5, error_score='raise',
                  estimator=DecisionTreeRegressor(criterion='mse', max_depth=
          4, max_features=None,
                     max_leaf_nodes=10, min_impurity_decrease=0.0,
                     min_impurity_split=None, min_samples_leaf=1,
                     min_samples_split=5, min_weight_fraction_leaf=0.0,
                     presort=False, random_state=42, splitter='best'),
                  fit_params=None, iid=True, n_jobs=1,
                  param_grid={'criterion': ['mse'], 'min_samples_split': [10,
          20, 40], 'max_depth': [2, 6, 8], 'min_samples_leaf': [20, 40, 100]
          , 'max_leaf_nodes': [5, 20, 100]},
                  pre_dispatch='2*n_jobs', refit=True, return_train_score='wa
          rn',
                  scoring=None, verbose=0)
```

```
In [96]:  print("Best Hyperparameters::\n{}".format(grid_cv_dtm.best_params_)
          )
```

```
Best Hyperparameters::
{'criterion': 'mse', 'max_depth': 6, 'max_leaf_nodes': 100, 'min_s
amples_leaf': 100, 'min_samples_split': 10}
```

Next, we could fit the model with the best params we had detected before.

```
In [97]:  #Fit model with best params
          dt2 = DecisionTreeRegressor(max_depth=6,
                                      min_samples_split=10,
                                      max_leaf_nodes=100,
                                      min_samples_leaf=100,
                                      random_state=42)
          dt2.fit(X_train, y_train)
          y_val_pred_new = dt2.predict(X_val)
          print('RMSE: ', np.sqrt(mean_squared_error(y_val, y_val_pred_new)))
          print('R-square: ', r2_score(y_val, y_val_pred_new))
```

```
RMSE:   3.7655548302582855
R-square:   0.056048202247508616
```

```
In [110]:  #Visualizing the resulting tree with the graphviz package
           from sklearn.tree import export_graphviz
           import graphviz
           #import pydot
           from IPython.display import Image
           from sklearn import tree

           dot_data = tree.export_graphviz(dt2, out_file=None)
           graph = graphviz.Source(dot_data)
           graph
```

Out[110]:

6.5 Random Forest

As a last model we applied Random Forest and first fitted the model with sample params values. We generated different models each time with different params that we selected to fit our data.

```
In [99]:  #Import the relevant packages and fit the model
          from sklearn.ensemble import RandomForestRegressor

          rf = RandomForestRegressor(bootstrap=True,
                                     max_depth=4,
                                     min_samples_split=5,
                                     max_leaf_nodes=10,
                                      random_state=42)

          rf.fit(X_train, y_train)
          y_rf_pred = dt.predict(X_val)
          print('RMSE: ', np.sqrt(mean_squared_error(y_val, y_rf_pred)))
          print('R-square: ', r2_score(y_val, y_rf_pred))
```

```
RMSE:   3.7900860916515033
R-square:   0.04370911438628766
```

In order to tune the params we used Randomized Search Cross Validation as shown in the next cell.

```
In [100]:  #Import the relevant package
           from sklearn.model_selection import RandomizedSearchCV

           # Criterion
           criterion = ['mse']
           # Number of trees in random forest
           n_estimators = [int(x) for x in np.arange(start = 2 , stop = 10)]
           # Number of features to consider at every split
           max_features = ['auto', 'sqrt']
           # Maximum number of levels in tree
           max_depth = [2,6,8]
           # Minimum number of samples required to split a node
           min_samples_split = [10, 20, 40]
           # Minimum number of samples required at each leaf node
           min_samples_leaf = [20, 40, 100]
           # Method of selecting samples for training each tree
           bootstrap = [True, False]
           # Maximum leaf nodes
           max_leaf_nodes = [5, 20, 100]

           # Create the random grid
           random_grid = {'criterion' : criterion,
                          '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,
                          'max_leaf_nodes': max_leaf_nodes
                         }
```

In [101]:
```
#Model 2
#Perform RandomizedSearchCV with defined criteria
rf2 = RandomForestRegressor()
rf_random = RandomizedSearchCV(estimator = rf2, param_distributions
= random_grid,
                n_iter = 100, cv = 5, verbose=2, n_jobs = -1)

rf_random.fit(X_train, y_train)
```

```
Fitting 5 folds for each of 100 candidates, totalling 500 fits
[CV] n_estimators=4, min_samples_split=40, min_samples_leaf=100, m
ax_leaf_nodes=5, max_features=sqrt, max_depth=2, criterion=mse, bo
otstrap=False
[CV] n_estimators=4, min_samples_split=40, min_samples_leaf=100, m
ax_leaf_nodes=5, max_features=sqrt, max_depth=2, criterion=mse, bo
otstrap=False
[CV] n_estimators=4, min_samples_split=40, min_samples_leaf=100, m
ax_leaf_nodes=5, max_features=sqrt, max_depth=2, criterion=mse, bo
otstrap=False
[CV] n_estimators=4, min_samples_split=40, min_samples_leaf=100, m
ax_leaf_nodes=5, max_features=sqrt, max_depth=2, criterion=mse, bo
otstrap=False
[CV] n_estimators=4, min_samples_split=40, min_samples_leaf=100, m
ax_leaf_nodes=5, max_features=sqrt, max_depth=2, criterion=mse, bo
otstrap=False
[CV] n_estimators=7, min_samples_split=10, min_samples_leaf=20, ma
x_leaf_nodes=20, max_features=sqrt, max_depth=8, criterion=mse, bo
otstrap=True
[CV] n_estimators=7, min_samples_split=10, min_samples_leaf=20, ma
x_leaf_nodes=20, max_features=sqrt, max_depth=8, criterion=mse, bo
otstrap=True
[CV] n_estimators=7, min_samples_split=10, min_samples_leaf=20, ma
x_leaf_nodes=20, max_features=sqrt, max_depth=8, criterion=mse, bo
otstrap=True
[CV]  n_estimators=4, min_samples_split=40, min_samples_leaf=100,
max_leaf_nodes=5, max_features=sqrt, max_depth=2, criterion=mse, b
ootstrap=False, total=   0.6s
[CV]  n_estimators=4, min_samples_split=40, min_samples_leaf=100,
max_leaf_nodes=5, max_features=sqrt, max_depth=2, criterion=mse, b
ootstrap=False, total=   0.6s
[CV] n_estimators=7, min_samples_split=10, min_samples_leaf=20, ma
x_leaf_nodes=20, max_features=sqrt, max_depth=8, criterion=mse, bo
otstrap=True
[CV] n_estimators=7, min_samples_split=10, min_samples_leaf=20, ma
x_leaf_nodes=20, max_features=sqrt, max_depth=8, criterion=mse, bo
otstrap=True
[CV]  n_estimators=4, min_samples_split=40, min_samples_leaf=100,
max_leaf_nodes=5, max_features=sqrt, max_depth=2, criterion=mse, b
ootstrap=False, total=   0.7s
[CV]  n_estimators=4, min_samples_split=40, min_samples_leaf=100,
max_leaf_nodes=5, max_features=sqrt, max_depth=2, criterion=mse, b
ootstrap=False, total=   0.6s
[CV] n_estimators=6, min_samples_split=20, min_samples_leaf=20, ma
```

x_leaf_nodes=100, max_features=sqrt, max_depth=2, criterion=mse, b
ootstrap=True
[CV] n_estimators=4, min_samples_split=40, min_samples_leaf=100,
max_leaf_nodes=5, max_features=sqrt, max_depth=2, criterion=mse, b
ootstrap=False, total=   0.6s
[CV] n_estimators=6, min_samples_split=20, min_samples_leaf=20, ma
x_leaf_nodes=100, max_features=sqrt, max_depth=2, criterion=mse, b
ootstrap=True
[CV] n_estimators=6, min_samples_split=20, min_samples_leaf=20, ma
x_leaf_nodes=100, max_features=sqrt, max_depth=2, criterion=mse, b
ootstrap=True
[CV] n_estimators=6, min_samples_split=20, min_samples_leaf=20, ma
x_leaf_nodes=100, max_features=sqrt, max_depth=2, criterion=mse, b
ootstrap=True
[CV] n_estimators=6, min_samples_split=20, min_samples_leaf=20, ma
x_leaf_nodes=100, max_features=sqrt, max_depth=2, criterion=mse, b
ootstrap=True
[CV] n_estimators=7, min_samples_split=20, min_samples_leaf=40, ma
x_leaf_nodes=5, max_features=sqrt, max_depth=8, criterion=mse, boo
tstrap=False
[CV] n_estimators=7, min_samples_split=10, min_samples_leaf=20, m
ax_leaf_nodes=20, max_features=sqrt, max_depth=8, criterion=mse, b
ootstrap=True, total=   1.0s
[CV] n_estimators=7, min_samples_split=20, min_samples_leaf=40, ma
x_leaf_nodes=5, max_features=sqrt, max_depth=8, criterion=mse, boo
tstrap=False
[CV] n_estimators=6, min_samples_split=20, min_samples_leaf=20, m
ax_leaf_nodes=100, max_features=sqrt, max_depth=2, criterion=mse,
bootstrap=True, total=   0.6s
[CV] n_estimators=7, min_samples_split=10, min_samples_leaf=20, m
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ootstrap=True, total=   1.2s
[CV] n_estimators=7, min_samples_split=20, min_samples_leaf=40, ma
x_leaf_nodes=5, max_features=sqrt, max_depth=8, criterion=mse, boo
tstrap=False
[CV] n_estimators=6, min_samples_split=20, min_samples_leaf=20, m
ax_leaf_nodes=100, max_features=sqrt, max_depth=2, criterion=mse,
bootstrap=True, total=   0.6s
[CV] n_estimators=7, min_samples_split=10, min_samples_leaf=20, m
ax_leaf_nodes=20, max_features=sqrt, max_depth=8, criterion=mse, b
ootstrap=True, total=   1.1s
[CV] n_estimators=6, min_samples_split=20, min_samples_leaf=20, m
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bootstrap=True, total=   0.6s
[CV] n_estimators=7, min_samples_split=20, min_samples_leaf=40, ma
x_leaf_nodes=5, max_features=sqrt, max_depth=8, criterion=mse, boo
tstrap=False
[CV] n_estimators=7, min_samples_split=10, min_samples_leaf=20, m
ax_leaf_nodes=20, max_features=sqrt, max_depth=8, criterion=mse, b
ootstrap=True, total=   1.0s
[CV] n_estimators=7, min_samples_split=20, min_samples_leaf=40, ma
x_leaf_nodes=5, max_features=sqrt, max_depth=8, criterion=mse, boo
tstrap=False
[CV] n_estimators=7, min_samples_split=10, min_samples_leaf=20, m

ax_leaf_nodes=20, max_features=sqrt, max_depth=8, criterion=mse, b
ootstrap=True, total=   1.1s
[CV] n_estimators=6, min_samples_split=20, min_samples_leaf=20, m
ax_leaf_nodes=100, max_features=sqrt, max_depth=2, criterion=mse,
bootstrap=True, total=   0.6s
[CV] n_estimators=9, min_samples_split=10, min_samples_leaf=40, ma
x_leaf_nodes=100, max_features=sqrt, max_depth=6, criterion=mse, b
ootstrap=True
[CV] n_estimators=6, min_samples_split=20, min_samples_leaf=20, m
ax_leaf_nodes=100, max_features=sqrt, max_depth=2, criterion=mse,
bootstrap=True, total=   0.7s
[CV] n_estimators=9, min_samples_split=10, min_samples_leaf=40, ma
x_leaf_nodes=100, max_features=sqrt, max_depth=6, criterion=mse, b
ootstrap=True
[CV] n_estimators=9, min_samples_split=10, min_samples_leaf=40, ma
x_leaf_nodes=100, max_features=sqrt, max_depth=6, criterion=mse, b
ootstrap=True
[CV] n_estimators=9, min_samples_split=10, min_samples_leaf=40, ma
x_leaf_nodes=100, max_features=sqrt, max_depth=6, criterion=mse, b
ootstrap=True
[CV] n_estimators=9, min_samples_split=10, min_samples_leaf=40, ma
x_leaf_nodes=100, max_features=sqrt, max_depth=6, criterion=mse, b
ootstrap=True
[CV] n_estimators=7, min_samples_split=20, min_samples_leaf=40, m
ax_leaf_nodes=5, max_features=sqrt, max_depth=8, criterion=mse, bo
otstrap=False, total=   1.0s
[CV] n_estimators=2, min_samples_split=10, min_samples_leaf=20, ma
x_leaf_nodes=20, max_features=sqrt, max_depth=2, criterion=mse, bo
otstrap=True
[CV] n_estimators=7, min_samples_split=20, min_samples_leaf=40, m
ax_leaf_nodes=5, max_features=sqrt, max_depth=8, criterion=mse, bo
otstrap=False, total=   1.0s
[CV] n_estimators=2, min_samples_split=10, min_samples_leaf=20, ma
x_leaf_nodes=20, max_features=sqrt, max_depth=2, criterion=mse, bo
otstrap=True
[CV] n_estimators=7, min_samples_split=20, min_samples_leaf=40, m
ax_leaf_nodes=5, max_features=sqrt, max_depth=8, criterion=mse, bo
otstrap=False, total=   1.0s
[CV] n_estimators=7, min_samples_split=20, min_samples_leaf=40, m
ax_leaf_nodes=5, max_features=sqrt, max_depth=8, criterion=mse, bo
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[CV] n_estimators=2, min_samples_split=10, min_samples_leaf=20, ma
x_leaf_nodes=20, max_features=sqrt, max_depth=2, criterion=mse, bo
otstrap=True
[CV] n_estimators=2, min_samples_split=10, min_samples_leaf=20, ma
x_leaf_nodes=20, max_features=sqrt, max_depth=2, criterion=mse, bo
otstrap=True
[CV] n_estimators=2, min_samples_split=10, min_samples_leaf=20, m
ax_leaf_nodes=20, max_features=sqrt, max_depth=2, criterion=mse, b
ootstrap=True, total=   0.3s
[CV] n_estimators=2, min_samples_split=10, min_samples_leaf=20, ma
x_leaf_nodes=20, max_features=sqrt, max_depth=2, criterion=mse, bo
otstrap=True

```
[CV]  n_estimators=7, min_samples_split=20, min_samples_leaf=40, m
ax_leaf_nodes=5, max_features=sqrt, max_depth=8, criterion=mse, bo
otstrap=False, total=   1.0s
[CV]  n_estimators=2, min_samples_split=10, min_samples_leaf=20, m
ax_leaf_nodes=20, max_features=sqrt, max_depth=2, criterion=mse, b
ootstrap=True, total=   0.3s
[CV] n_estimators=4, min_samples_split=40, min_samples_leaf=40, ma
x_leaf_nodes=100, max_features=sqrt, max_depth=8, criterion=mse, b
ootstrap=False
[CV]  n_estimators=2, min_samples_split=10, min_samples_leaf=20, m
ax_leaf_nodes=20, max_features=sqrt, max_depth=2, criterion=mse, b
ootstrap=True, total=   0.3s
[CV] n_estimators=4, min_samples_split=40, min_samples_leaf=40, ma
x_leaf_nodes=100, max_features=sqrt, max_depth=8, criterion=mse, b
ootstrap=False
[CV]  n_estimators=2, min_samples_split=10, min_samples_leaf=20, m
ax_leaf_nodes=20, max_features=sqrt, max_depth=2, criterion=mse, b
ootstrap=True, total=   0.3s
[CV] n_estimators=4, min_samples_split=40, min_samples_leaf=40, ma
x_leaf_nodes=100, max_features=sqrt, max_depth=8, criterion=mse, b
ootstrap=False
[CV]  n_estimators=2, min_samples_split=10, min_samples_leaf=20, m
ax_leaf_nodes=20, max_features=sqrt, max_depth=2, criterion=mse, b
ootstrap=True, total=   0.3s
[CV] n_estimators=4, min_samples_split=40, min_samples_leaf=40, ma
x_leaf_nodes=100, max_features=sqrt, max_depth=8, criterion=mse, b
ootstrap=False
[CV] n_estimators=4, min_samples_split=40, min_samples_leaf=40, ma
x_leaf_nodes=100, max_features=sqrt, max_depth=8, criterion=mse, b
ootstrap=False
[CV] n_estimators=6, min_samples_split=10, min_samples_leaf=40, ma
x_leaf_nodes=100, max_features=sqrt, max_depth=8, criterion=mse, b
ootstrap=True
[CV] n_estimators=6, min_samples_split=10, min_samples_leaf=40, ma
x_leaf_nodes=100, max_features=sqrt, max_depth=8, criterion=mse, b
ootstrap=True
[CV] n_estimators=6, min_samples_split=10, min_samples_leaf=40, ma
x_leaf_nodes=100, max_features=sqrt, max_depth=8, criterion=mse, b
ootstrap=True
[CV]  n_estimators=9, min_samples_split=10, min_samples_leaf=40, m
ax_leaf_nodes=100, max_features=sqrt, max_depth=6, criterion=mse,
bootstrap=True, total=   1.7s
[CV] n_estimators=6, min_samples_split=10, min_samples_leaf=40, ma
x_leaf_nodes=100, max_features=sqrt, max_depth=8, criterion=mse, b
ootstrap=True
[CV] n_estimators=6, min_samples_split=10, min_samples_leaf=40, ma
x_leaf_nodes=100, max_features=sqrt, max_depth=8, criterion=mse, b
ootstrap=True
[CV]  n_estimators=9, min_samples_split=10, min_samples_leaf=40, m
ax_leaf_nodes=100, max_features=sqrt, max_depth=6, criterion=mse,
bootstrap=True, total=   1.8s
[CV] n_estimators=2, min_samples_split=20, min_samples_leaf=40, ma
x_leaf_nodes=20, max_features=auto, max_depth=2, criterion=mse, bo
otstrap=True
```

```
[CV] n_estimators=2, min_samples_split=20, min_samples_leaf=40, ma
x_leaf_nodes=20, max_features=auto, max_depth=2, criterion=mse, bo
otstrap=True
[CV]  n_estimators=9, min_samples_split=10, min_samples_leaf=40, m
ax_leaf_nodes=100, max_features=sqrt, max_depth=6, criterion=mse,
bootstrap=True, total=   1.9s
[CV]  n_estimators=9, min_samples_split=10, min_samples_leaf=40, m
ax_leaf_nodes=100, max_features=sqrt, max_depth=6, criterion=mse,
bootstrap=True, total=   1.8s
[CV] n_estimators=2, min_samples_split=20, min_samples_leaf=40, ma
x_leaf_nodes=20, max_features=auto, max_depth=2, criterion=mse, bo
otstrap=True
[CV]  n_estimators=9, min_samples_split=10, min_samples_leaf=40, m
ax_leaf_nodes=100, max_features=sqrt, max_depth=6, criterion=mse,
bootstrap=True, total=   1.8s
[CV]  n_estimators=4, min_samples_split=40, min_samples_leaf=40, m
ax_leaf_nodes=100, max_features=sqrt, max_depth=8, criterion=mse,
bootstrap=False, total=   1.3s
[CV] n_estimators=2, min_samples_split=20, min_samples_leaf=40, ma
x_leaf_nodes=20, max_features=auto, max_depth=2, criterion=mse, bo
otstrap=True
[CV] n_estimators=2, min_samples_split=20, min_samples_leaf=40, ma
x_leaf_nodes=20, max_features=auto, max_depth=2, criterion=mse, bo
otstrap=True
[CV] n_estimators=4, min_samples_split=40, min_samples_leaf=40, ma
x_leaf_nodes=20, max_features=auto, max_depth=6, criterion=mse, bo
otstrap=True
[CV]  n_estimators=4, min_samples_split=40, min_samples_leaf=40, m
ax_leaf_nodes=100, max_features=sqrt, max_depth=8, criterion=mse,
bootstrap=False, total=   1.4s
[CV]  n_estimators=4, min_samples_split=40, min_samples_leaf=40, m
ax_leaf_nodes=100, max_features=sqrt, max_depth=8, criterion=mse,
bootstrap=False, total=   1.2s
[CV]  n_estimators=4, min_samples_split=40, min_samples_leaf=40, m
ax_leaf_nodes=100, max_features=sqrt, max_depth=8, criterion=mse,
bootstrap=False, total=   1.3s
[CV] n_estimators=4, min_samples_split=40, min_samples_leaf=40, ma
x_leaf_nodes=20, max_features=auto, max_depth=6, criterion=mse, bo
otstrap=True
[CV] n_estimators=4, min_samples_split=40, min_samples_leaf=40, ma
x_leaf_nodes=20, max_features=auto, max_depth=6, criterion=mse, bo
otstrap=True
[CV] n_estimators=4, min_samples_split=40, min_samples_leaf=40, ma
x_leaf_nodes=20, max_features=auto, max_depth=6, criterion=mse, bo
otstrap=True
[CV]  n_estimators=4, min_samples_split=40, min_samples_leaf=40, m
ax_leaf_nodes=100, max_features=sqrt, max_depth=8, criterion=mse,
bootstrap=False, total=   1.4s
[CV] n_estimators=4, min_samples_split=40, min_samples_leaf=40, ma
x_leaf_nodes=20, max_features=auto, max_depth=6, criterion=mse, bo
otstrap=True
[CV]  n_estimators=6, min_samples_split=10, min_samples_leaf=40, m
ax_leaf_nodes=100, max_features=sqrt, max_depth=8, criterion=mse,
```

```
                     bootstrap=True, total=   1.4s
[CV] n_estimators=8, min_samples_split=40, min_samples_leaf=40, ma
x_leaf_nodes=5, max_features=sqrt, max_depth=2, criterion=mse, boo
tstrap=False
[CV]  n_estimators=6, min_samples_split=10, min_samples_leaf=40, m
ax_leaf_nodes=100, max_features=sqrt, max_depth=8, criterion=mse,
bootstrap=True, total=   1.3s
[CV]  n_estimators=6, min_samples_split=10, min_samples_leaf=40, m
ax_leaf_nodes=100, max_features=sqrt, max_depth=8, criterion=mse,
bootstrap=True, total=   1.3s
[CV]  n_estimators=6, min_samples_split=10, min_samples_leaf=40, m
ax_leaf_nodes=100, max_features=sqrt, max_depth=8, criterion=mse,
bootstrap=True, total=   1.4s
[CV] n_estimators=8, min_samples_split=40, min_samples_leaf=40, ma
x_leaf_nodes=5, max_features=sqrt, max_depth=2, criterion=mse, boo
tstrap=False
[CV] n_estimators=8, min_samples_split=40, min_samples_leaf=40, ma
x_leaf_nodes=5, max_features=sqrt, max_depth=2, criterion=mse, boo
tstrap=False
[CV]  n_estimators=6, min_samples_split=10, min_samples_leaf=40, m
ax_leaf_nodes=100, max_features=sqrt, max_depth=8, criterion=mse,
bootstrap=True, total=   1.3s
[CV] n_estimators=8, min_samples_split=40, min_samples_leaf=40, ma
x_leaf_nodes=5, max_features=sqrt, max_depth=2, criterion=mse, boo
tstrap=False
[CV]  n_estimators=2, min_samples_split=20, min_samples_leaf=40, m
ax_leaf_nodes=20, max_features=auto, max_depth=2, criterion=mse, b
ootstrap=True, total=   1.2s
[CV]  n_estimators=2, min_samples_split=20, min_samples_leaf=40, m
ax_leaf_nodes=20, max_features=auto, max_depth=2, criterion=mse, b
ootstrap=True, total=   1.2s
[CV] n_estimators=8, min_samples_split=40, min_samples_leaf=40, ma
x_leaf_nodes=5, max_features=sqrt, max_depth=2, criterion=mse, boo
tstrap=False
[CV]  n_estimators=2, min_samples_split=20, min_samples_leaf=40, m
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[CV]  n_estimators=2, min_samples_split=20, min_samples_leaf=40, m
ax_leaf_nodes=20, max_features=auto, max_depth=2, criterion=mse, b
ootstrap=True, total=   1.2s
[CV] n_estimators=4, min_samples_split=10, min_samples_leaf=20, ma
x_leaf_nodes=100, max_features=auto, max_depth=2, criterion=mse, b
ootstrap=True
[CV]  n_estimators=2, min_samples_split=20, min_samples_leaf=40, m
ax_leaf_nodes=20, max_features=auto, max_depth=2, criterion=mse, b
ootstrap=True, total=   1.3s
[CV] n_estimators=4, min_samples_split=10, min_samples_leaf=20, ma
x_leaf_nodes=100, max_features=auto, max_depth=2, criterion=mse, b
ootstrap=True
[CV] n_estimators=4, min_samples_split=10, min_samples_leaf=20, ma
x_leaf_nodes=100, max_features=auto, max_depth=2, criterion=mse, b
```

```
ootstrap=True
[CV] n_estimators=4, min_samples_split=10, min_samples_leaf=20, ma
x_leaf_nodes=100, max_features=auto, max_depth=2, criterion=mse, b
ootstrap=True
[CV] n_estimators=8, min_samples_split=10, min_samples_leaf=100, m
ax_leaf_nodes=5, max_features=auto, max_depth=8, criterion=mse, bo
otstrap=False
[CV]  n_estimators=8, min_samples_split=40, min_samples_leaf=40, m
ax_leaf_nodes=5, max_features=sqrt, max_depth=2, criterion=mse, bo
otstrap=False, total=   1.0s
[CV] n_estimators=8, min_samples_split=10, min_samples_leaf=100, m
ax_leaf_nodes=5, max_features=auto, max_depth=8, criterion=mse, bo
otstrap=False
[CV] n_estimators=8, min_samples_split=10, min_samples_leaf=100, m
ax_leaf_nodes=5, max_features=auto, max_depth=8, criterion=mse, bo
otstrap=False
[CV]  n_estimators=8, min_samples_split=40, min_samples_leaf=40, m
ax_leaf_nodes=5, max_features=sqrt, max_depth=2, criterion=mse, bo
otstrap=False, total=   1.1s
[CV] n_estimators=8, min_samples_split=10, min_samples_leaf=100, m
ax_leaf_nodes=5, max_features=auto, max_depth=8, criterion=mse, bo
otstrap=False
[CV]  n_estimators=8, min_samples_split=40, min_samples_leaf=40, m
ax_leaf_nodes=5, max_features=sqrt, max_depth=2, criterion=mse, bo
otstrap=False, total=   1.0s
[CV] n_estimators=8, min_samples_split=10, min_samples_leaf=100, m
ax_leaf_nodes=5, max_features=auto, max_depth=8, criterion=mse, bo
otstrap=False
[CV]  n_estimators=8, min_samples_split=40, min_samples_leaf=40, m
ax_leaf_nodes=5, max_features=sqrt, max_depth=2, criterion=mse, bo
otstrap=False, total=   1.0s
[CV]  n_estimators=8, min_samples_split=40, min_samples_leaf=40, m
ax_leaf_nodes=5, max_features=sqrt, max_depth=2, criterion=mse, bo
otstrap=False, total=   1.3s
[CV] n_estimators=9, min_samples_split=40, min_samples_leaf=100, m
ax_leaf_nodes=5, max_features=auto, max_depth=2, criterion=mse, bo
otstrap=True
[CV] n_estimators=9, min_samples_split=40, min_samples_leaf=100, m
ax_leaf_nodes=5, max_features=auto, max_depth=2, criterion=mse, bo
otstrap=True

[Parallel(n_jobs=-1)]: Done  50 tasks      | elapsed:    7.1s

[CV] n_estimators=9, min_samples_split=40, min_samples_leaf=100, m
ax_leaf_nodes=5, max_features=auto, max_depth=2, criterion=mse, bo
otstrap=True
[CV] n_estimators=9, min_samples_split=40, min_samples_leaf=100, m
ax_leaf_nodes=5, max_features=auto, max_depth=2, criterion=mse, bo
otstrap=True
[CV] n_estimators=9, min_samples_split=40, min_samples_leaf=100, m
ax_leaf_nodes=5, max_features=auto, max_depth=2, criterion=mse, bo
otstrap=True
[CV] n_estimators=7, min_samples_split=40, min_samples_leaf=100, m
ax_leaf_nodes=20, max_features=auto, max_depth=2, criterion=mse, b
```

```
ootstrap=True
[CV] n_estimators=7, min_samples_split=40, min_samples_leaf=100, m
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ootstrap=False
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ootstrap=False
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bootstrap=True, total=   2.3s
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[CV] n_estimators=8, min_samples_split=10, min_samples_leaf=40, ma
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```

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x_leaf_nodes=5, max_features=sqrt, max_depth=6, criterion=mse, boo
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ax_leaf_nodes=100, max_features=auto, max_depth=2, criterion=mse,
bootstrap=True, total=   2.6s
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ax_leaf_nodes=5, max_features=sqrt, max_depth=6, criterion=mse, bo
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bootstrap=False, total=   1.0s
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[CV] n_estimators=8, min_samples_split=10, min_samples_leaf=40, m
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[CV] n_estimators=6, min_samples_split=40, min_samples_leaf=100,
max_leaf_nodes=5, max_features=sqrt, max_depth=6, criterion=mse, b
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[CV] n_estimators=9, min_samples_split=10, min_samples_leaf=40, ma
x_leaf_nodes=100, max_features=auto, max_depth=2, criterion=mse, b
ootstrap=True

```
[CV] n_estimators=9, min_samples_split=10, min_samples_leaf=40, ma
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bootstrap=False, total=   1.0s
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[CV]  n_estimators=3, min_samples_split=40, min_samples_leaf=40, m
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bootstrap=False, total=   1.0s
[CV] n_estimators=9, min_samples_split=40, min_samples_leaf=40, ma
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ax_leaf_nodes=100, max_features=sqrt, max_depth=6, criterion=mse,
```

```
bootstrap=False
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bootstrap=False
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bootstrap=False
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bootstrap=True, total=   0.8s
[CV]  n_estimators=3, min_samples_split=10, min_samples_leaf=20, m
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bootstrap=True, total=   0.7s
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[CV]  n_estimators=9, min_samples_split=40, min_samples_leaf=40, m
ax_leaf_nodes=20, max_features=sqrt, max_depth=8, criterion=mse, b
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[CV] n_estimators=3, min_samples_split=20, min_samples_leaf=100, m
ax_leaf_nodes=100, max_features=auto, max_depth=8, criterion=mse,
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ax_leaf_nodes=100, max_features=sqrt, max_depth=6, criterion=mse,
bootstrap=True, total=   0.8s
[CV]  n_estimators=7, min_samples_split=40, min_samples_leaf=100,
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bootstrap=True, total=   4.6s
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bootstrap=True, total=   4.5s
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ax_leaf_nodes=100, max_features=auto, max_depth=8, criterion=mse,
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[CV] n_estimators=3, min_samples_split=20, min_samples_leaf=100, m
ax_leaf_nodes=100, max_features=auto, max_depth=8, criterion=mse,
bootstrap=False
[CV]  n_estimators=7, min_samples_split=40, min_samples_leaf=100,
max_leaf_nodes=20, max_features=auto, max_depth=2, criterion=mse,
bootstrap=True, total=   4.6s
[CV] n_estimators=3, min_samples_split=20, min_samples_leaf=100, m
ax_leaf_nodes=100, max_features=auto, max_depth=8, criterion=mse,
bootstrap=False
[CV]  n_estimators=9, min_samples_split=40, min_samples_leaf=40, m
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[CV]  n_estimators=3, min_samples_split=10, min_samples_leaf=20, m
ax_leaf_nodes=100, max_features=sqrt, max_depth=6, criterion=mse,
```

```
                    bootstrap=True, total=    0.9s
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bootstrap=True, total=    5.0s
[CV]  n_estimators=4, min_samples_split=20, min_samples_leaf=20, ma
x_leaf_nodes=20, max_features=auto, max_depth=2, criterion=mse, bo
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[CV]   n_estimators=9, min_samples_split=40, min_samples_leaf=40, m
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ootstrap=True, total=    1.8s
[CV]   n_estimators=9, min_samples_split=40, min_samples_leaf=100,
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[CV]   n_estimators=9, min_samples_split=40, min_samples_leaf=100,
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ootstrap=True, total=   5.9s
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bootstrap=False, total=   1.3s
[CV]  n_estimators=4, min_samples_split=40, min_samples_leaf=100,
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bootstrap=False
[CV]  n_estimators=8, min_samples_split=10, min_samples_leaf=100,
max_leaf_nodes=5, max_features=auto, max_depth=8, criterion=mse, b
ootstrap=False, total=   7.5s
[CV]  n_estimators=8, min_samples_split=10, min_samples_leaf=100,
max_leaf_nodes=5, max_features=auto, max_depth=8, criterion=mse, b
ootstrap=False, total=   7.4s
[CV] n_estimators=9, min_samples_split=20, min_samples_leaf=100, m
ax_leaf_nodes=100, max_features=auto, max_depth=8, criterion=mse,
bootstrap=False
[CV] n_estimators=3, min_samples_split=40, min_samples_leaf=100, m
ax_leaf_nodes=5, max_features=auto, max_depth=8, criterion=mse, bo
otstrap=True
[CV]  n_estimators=8, min_samples_split=10, min_samples_leaf=100,
max_leaf_nodes=5, max_features=auto, max_depth=8, criterion=mse, b
ootstrap=False, total=   7.4s
[CV]  n_estimators=7, min_samples_split=20, min_samples_leaf=40, m
ax_leaf_nodes=5, max_features=sqrt, max_depth=6, criterion=mse, bo
otstrap=False, total=   1.0s
```

```
[CV] n_estimators=3, min_samples_split=40, min_samples_leaf=100, m
ax_leaf_nodes=5, max_features=auto, max_depth=8, criterion=mse, bo
otstrap=True
[CV]  n_estimators=7, min_samples_split=20, min_samples_leaf=40, m
ax_leaf_nodes=5, max_features=sqrt, max_depth=6, criterion=mse, bo
otstrap=False, total=   1.0s
[CV]  n_estimators=7, min_samples_split=20, min_samples_leaf=40, m
ax_leaf_nodes=5, max_features=sqrt, max_depth=6, criterion=mse, bo
otstrap=False, total=   0.9s
[CV]  n_estimators=7, min_samples_split=20, min_samples_leaf=40, m
ax_leaf_nodes=5, max_features=sqrt, max_depth=6, criterion=mse, bo
otstrap=False, total=   1.2s
[CV] n_estimators=3, min_samples_split=40, min_samples_leaf=100, m
ax_leaf_nodes=5, max_features=auto, max_depth=8, criterion=mse, bo
otstrap=True
[CV]   n_estimators=8, min_samples_split=10, min_samples_leaf=100,
max_leaf_nodes=5, max_features=auto, max_depth=8, criterion=mse, b
ootstrap=False, total=   7.8s
[CV] n_estimators=3, min_samples_split=40, min_samples_leaf=100, m
ax_leaf_nodes=5, max_features=auto, max_depth=8, criterion=mse, bo
otstrap=True
[CV]  n_estimators=7, min_samples_split=20, min_samples_leaf=40, m
ax_leaf_nodes=5, max_features=sqrt, max_depth=6, criterion=mse, bo
otstrap=False, total=   1.0s
[CV] n_estimators=3, min_samples_split=40, min_samples_leaf=100, m
ax_leaf_nodes=5, max_features=auto, max_depth=8, criterion=mse, bo
otstrap=True
[CV] n_estimators=3, min_samples_split=20, min_samples_leaf=40, ma
x_leaf_nodes=5, max_features=sqrt, max_depth=6, criterion=mse, boo
tstrap=True
[CV] n_estimators=3, min_samples_split=20, min_samples_leaf=40, ma
x_leaf_nodes=5, max_features=sqrt, max_depth=6, criterion=mse, boo
tstrap=True
[CV]   n_estimators=8, min_samples_split=10, min_samples_leaf=100,
max_leaf_nodes=5, max_features=auto, max_depth=8, criterion=mse, b
ootstrap=False, total=   8.1s
[CV] n_estimators=3, min_samples_split=20, min_samples_leaf=40, ma
x_leaf_nodes=5, max_features=sqrt, max_depth=6, criterion=mse, boo
tstrap=True
[CV] n_estimators=3, min_samples_split=20, min_samples_leaf=40, ma
x_leaf_nodes=5, max_features=sqrt, max_depth=6, criterion=mse, boo
tstrap=True
[CV]  n_estimators=3, min_samples_split=20, min_samples_leaf=40, m
ax_leaf_nodes=5, max_features=sqrt, max_depth=6, criterion=mse, bo
otstrap=True, total=   0.3s
[CV]  n_estimators=3, min_samples_split=20, min_samples_leaf=40, m
ax_leaf_nodes=5, max_features=sqrt, max_depth=6, criterion=mse, bo
otstrap=True, total=   0.3s
[CV] n_estimators=3, min_samples_split=20, min_samples_leaf=40, ma
x_leaf_nodes=5, max_features=sqrt, max_depth=6, criterion=mse, boo
tstrap=True
[CV] n_estimators=7, min_samples_split=10, min_samples_leaf=40, ma
x_leaf_nodes=5, max_features=auto, max_depth=6, criterion=mse, boo
```

tstrap=False
[CV] n_estimators=7, min_samples_split=10, min_samples_leaf=40, ma
x_leaf_nodes=5, max_features=auto, max_depth=6, criterion=mse, boo
tstrap=False
[CV] n_estimators=3, min_samples_split=20, min_samples_leaf=40, m
ax_leaf_nodes=5, max_features=sqrt, max_depth=6, criterion=mse, bo
otstrap=True, total=   0.4s
[CV] n_estimators=3, min_samples_split=20, min_samples_leaf=40, m
ax_leaf_nodes=5, max_features=sqrt, max_depth=6, criterion=mse, bo
otstrap=True, total=   0.3s
[CV] n_estimators=7, min_samples_split=10, min_samples_leaf=40, ma
x_leaf_nodes=5, max_features=auto, max_depth=6, criterion=mse, boo
tstrap=False
[CV] n_estimators=3, min_samples_split=20, min_samples_leaf=40, m
ax_leaf_nodes=5, max_features=sqrt, max_depth=6, criterion=mse, bo
otstrap=True, total=   0.4s
[CV] n_estimators=7, min_samples_split=10, min_samples_leaf=40, ma
x_leaf_nodes=5, max_features=auto, max_depth=6, criterion=mse, boo
tstrap=False
[CV] n_estimators=9, min_samples_split=10, min_samples_leaf=40, m
ax_leaf_nodes=100, max_features=auto, max_depth=2, criterion=mse,
bootstrap=True, total=   5.5s
[CV] n_estimators=7, min_samples_split=10, min_samples_leaf=40, ma
x_leaf_nodes=5, max_features=auto, max_depth=6, criterion=mse, boo
tstrap=False
[CV] n_estimators=2, min_samples_split=20, min_samples_leaf=100, m
ax_leaf_nodes=20, max_features=auto, max_depth=2, criterion=mse, b
ootstrap=False
[CV] n_estimators=2, min_samples_split=20, min_samples_leaf=100, m
ax_leaf_nodes=20, max_features=auto, max_depth=2, criterion=mse, b
ootstrap=False
[CV] n_estimators=9, min_samples_split=10, min_samples_leaf=40, m
ax_leaf_nodes=100, max_features=auto, max_depth=2, criterion=mse,
bootstrap=True, total=   5.9s
[CV] n_estimators=9, min_samples_split=10, min_samples_leaf=40, m
ax_leaf_nodes=100, max_features=auto, max_depth=2, criterion=mse,
bootstrap=True, total=   5.8s
[CV] n_estimators=3, min_samples_split=40, min_samples_leaf=100,
max_leaf_nodes=5, max_features=auto, max_depth=8, criterion=mse, b
ootstrap=True, total=   2.0s
[CV] n_estimators=2, min_samples_split=20, min_samples_leaf=100, m
ax_leaf_nodes=20, max_features=auto, max_depth=2, criterion=mse, b
ootstrap=False
[CV] n_estimators=9, min_samples_split=10, min_samples_leaf=40, m
ax_leaf_nodes=100, max_features=auto, max_depth=2, criterion=mse,
bootstrap=True, total=   5.7s
[CV] n_estimators=2, min_samples_split=20, min_samples_leaf=100, m
ax_leaf_nodes=20, max_features=auto, max_depth=2, criterion=mse, b
ootstrap=False
[CV] n_estimators=3, min_samples_split=40, min_samples_leaf=100,
max_leaf_nodes=5, max_features=auto, max_depth=8, criterion=mse, b
ootstrap=True, total=   1.7s
[CV] n_estimators=9, min_samples_split=10, min_samples_leaf=40, m
ax_leaf_nodes=100, max_features=auto, max_depth=2, criterion=mse,

```
                    bootstrap=True, total=    5.9s
[CV] n_estimators=2, min_samples_split=20, min_samples_leaf=100, m
ax_leaf_nodes=20, max_features=auto, max_depth=2, criterion=mse, b
ootstrap=False
[CV]  n_estimators=3, min_samples_split=40, min_samples_leaf=100,
max_leaf_nodes=5, max_features=auto, max_depth=8, criterion=mse, b
ootstrap=True, total=    2.0s
[CV]  n_estimators=3, min_samples_split=40, min_samples_leaf=100,
max_leaf_nodes=5, max_features=auto, max_depth=8, criterion=mse, b
ootstrap=True, total=    1.8s
[CV] n_estimators=3, min_samples_split=40, min_samples_leaf=20, ma
x_leaf_nodes=100, max_features=sqrt, max_depth=8, criterion=mse, b
ootstrap=True
[CV] n_estimators=3, min_samples_split=40, min_samples_leaf=20, ma
x_leaf_nodes=100, max_features=sqrt, max_depth=8, criterion=mse, b
ootstrap=True
[CV]  n_estimators=4, min_samples_split=20, min_samples_leaf=20, m
ax_leaf_nodes=20, max_features=auto, max_depth=2, criterion=mse, b
ootstrap=False, total=    3.8s
[CV]  n_estimators=3, min_samples_split=40, min_samples_leaf=100,
max_leaf_nodes=5, max_features=auto, max_depth=8, criterion=mse, b
ootstrap=True, total=    2.3s
[CV] n_estimators=3, min_samples_split=40, min_samples_leaf=20, ma
x_leaf_nodes=100, max_features=sqrt, max_depth=8, criterion=mse, b
ootstrap=True
[CV] n_estimators=3, min_samples_split=40, min_samples_leaf=20, ma
x_leaf_nodes=100, max_features=sqrt, max_depth=8, criterion=mse, b
ootstrap=True
[CV]  n_estimators=4, min_samples_split=20, min_samples_leaf=20, m
ax_leaf_nodes=20, max_features=auto, max_depth=2, criterion=mse, b
ootstrap=False, total=    4.1s
[CV]  n_estimators=4, min_samples_split=20, min_samples_leaf=20, m
ax_leaf_nodes=20, max_features=auto, max_depth=2, criterion=mse, b
ootstrap=False, total=    3.7s
[CV]  n_estimators=4, min_samples_split=20, min_samples_leaf=20, m
ax_leaf_nodes=20, max_features=auto, max_depth=2, criterion=mse, b
ootstrap=False, total=    4.0s
[CV] n_estimators=3, min_samples_split=40, min_samples_leaf=20, ma
x_leaf_nodes=100, max_features=sqrt, max_depth=8, criterion=mse, b
ootstrap=True
[CV] n_estimators=4, min_samples_split=40, min_samples_leaf=40, ma
x_leaf_nodes=20, max_features=sqrt, max_depth=2, criterion=mse, bo
otstrap=False
[CV] n_estimators=4, min_samples_split=40, min_samples_leaf=40, ma
x_leaf_nodes=20, max_features=sqrt, max_depth=2, criterion=mse, bo
otstrap=False
[CV]  n_estimators=3, min_samples_split=40, min_samples_leaf=20, m
ax_leaf_nodes=100, max_features=sqrt, max_depth=8, criterion=mse,
bootstrap=True, total=    0.7s
[CV] n_estimators=4, min_samples_split=40, min_samples_leaf=40, ma
x_leaf_nodes=20, max_features=sqrt, max_depth=2, criterion=mse, bo
otstrap=False
[CV]  n_estimators=3, min_samples_split=40, min_samples_leaf=20, m
```

```
ax_leaf_nodes=100, max_features=sqrt, max_depth=8, criterion=mse,
bootstrap=True, total=   0.6s
[CV] n_estimators=4, min_samples_split=40, min_samples_leaf=40, ma
x_leaf_nodes=20, max_features=sqrt, max_depth=2, criterion=mse, bo
otstrap=False
[CV]  n_estimators=4, min_samples_split=20, min_samples_leaf=20, m
ax_leaf_nodes=20, max_features=auto, max_depth=2, criterion=mse, b
ootstrap=False, total=   4.4s
[CV]  n_estimators=3, min_samples_split=40, min_samples_leaf=20, m
ax_leaf_nodes=100, max_features=sqrt, max_depth=8, criterion=mse,
bootstrap=True, total=   0.6s
[CV] n_estimators=4, min_samples_split=40, min_samples_leaf=40, ma
x_leaf_nodes=20, max_features=sqrt, max_depth=2, criterion=mse, bo
otstrap=False
[CV]  n_estimators=3, min_samples_split=40, min_samples_leaf=20, m
ax_leaf_nodes=100, max_features=sqrt, max_depth=8, criterion=mse,
bootstrap=True, total=   0.6s
[CV] n_estimators=5, min_samples_split=20, min_samples_leaf=100, m
ax_leaf_nodes=20, max_features=sqrt, max_depth=6, criterion=mse, b
ootstrap=False
[CV]  n_estimators=4, min_samples_split=40, min_samples_leaf=40, m
ax_leaf_nodes=20, max_features=sqrt, max_depth=2, criterion=mse, b
ootstrap=False, total=   0.5s
[CV]  n_estimators=3, min_samples_split=40, min_samples_leaf=20, m
ax_leaf_nodes=100, max_features=sqrt, max_depth=8, criterion=mse,
bootstrap=True, total=   0.7s
[CV] n_estimators=5, min_samples_split=20, min_samples_leaf=100, m
ax_leaf_nodes=20, max_features=sqrt, max_depth=6, criterion=mse, b
ootstrap=False
[CV] n_estimators=5, min_samples_split=20, min_samples_leaf=100, m
ax_leaf_nodes=20, max_features=sqrt, max_depth=6, criterion=mse, b
ootstrap=False
[CV]  n_estimators=4, min_samples_split=40, min_samples_leaf=40, m
ax_leaf_nodes=20, max_features=sqrt, max_depth=2, criterion=mse, b
ootstrap=False, total=   0.6s
[CV]  n_estimators=4, min_samples_split=40, min_samples_leaf=40, m
ax_leaf_nodes=20, max_features=sqrt, max_depth=2, criterion=mse, b
ootstrap=False, total=   0.5s
[CV]  n_estimators=2, min_samples_split=20, min_samples_leaf=100,
max_leaf_nodes=20, max_features=auto, max_depth=2, criterion=mse,
bootstrap=False, total=   1.8s
[CV] n_estimators=5, min_samples_split=20, min_samples_leaf=100, m
ax_leaf_nodes=20, max_features=sqrt, max_depth=6, criterion=mse, b
ootstrap=False
[CV]  n_estimators=4, min_samples_split=40, min_samples_leaf=40, m
ax_leaf_nodes=20, max_features=sqrt, max_depth=2, criterion=mse, b
ootstrap=False, total=   0.5s
[CV] n_estimators=5, min_samples_split=20, min_samples_leaf=100, m
ax_leaf_nodes=20, max_features=sqrt, max_depth=6, criterion=mse, b
ootstrap=False
[CV]  n_estimators=2, min_samples_split=20, min_samples_leaf=100,
max_leaf_nodes=20, max_features=auto, max_depth=2, criterion=mse,
bootstrap=False, total=   1.7s
```

```
[CV]  n_estimators=2, min_samples_split=20, min_samples_leaf=100,
max_leaf_nodes=20, max_features=auto, max_depth=2, criterion=mse,
bootstrap=False, total=   2.1s
[CV]  n_estimators=4, min_samples_split=40, min_samples_leaf=40, m
ax_leaf_nodes=20, max_features=sqrt, max_depth=2, criterion=mse, b
ootstrap=False, total=   0.6s
[CV] n_estimators=5, min_samples_split=20, min_samples_leaf=100, m
ax_leaf_nodes=100, max_features=auto, max_depth=6, criterion=mse,
bootstrap=False
[CV]  n_estimators=2, min_samples_split=20, min_samples_leaf=100,
max_leaf_nodes=20, max_features=auto, max_depth=2, criterion=mse,
bootstrap=False, total=   1.8s
[CV]  n_estimators=2, min_samples_split=20, min_samples_leaf=100,
max_leaf_nodes=20, max_features=auto, max_depth=2, criterion=mse,
bootstrap=False, total=   2.0s
[CV] n_estimators=5, min_samples_split=20, min_samples_leaf=100, m
ax_leaf_nodes=100, max_features=auto, max_depth=6, criterion=mse,
bootstrap=False
[CV] n_estimators=5, min_samples_split=20, min_samples_leaf=100, m
ax_leaf_nodes=100, max_features=auto, max_depth=6, criterion=mse,
bootstrap=False
[CV] n_estimators=5, min_samples_split=20, min_samples_leaf=100, m
ax_leaf_nodes=100, max_features=auto, max_depth=6, criterion=mse,
bootstrap=False
[CV] n_estimators=5, min_samples_split=20, min_samples_leaf=100, m
ax_leaf_nodes=100, max_features=auto, max_depth=6, criterion=mse,
bootstrap=False
[CV]  n_estimators=5, min_samples_split=20, min_samples_leaf=100,
max_leaf_nodes=20, max_features=sqrt, max_depth=6, criterion=mse,
bootstrap=False, total=   1.0s
[CV] n_estimators=4, min_samples_split=20, min_samples_leaf=20, ma
x_leaf_nodes=5, max_features=auto, max_depth=6, criterion=mse, boo
tstrap=True
[CV]  n_estimators=5, min_samples_split=20, min_samples_leaf=100,
max_leaf_nodes=20, max_features=sqrt, max_depth=6, criterion=mse,
bootstrap=False, total=   1.0s
[CV] n_estimators=4, min_samples_split=20, min_samples_leaf=20, ma
x_leaf_nodes=5, max_features=auto, max_depth=6, criterion=mse, boo
tstrap=True
[CV] n_estimators=4, min_samples_split=20, min_samples_leaf=20, ma
x_leaf_nodes=5, max_features=auto, max_depth=6, criterion=mse, boo
tstrap=True
[CV]  n_estimators=3, min_samples_split=20, min_samples_leaf=100,
max_leaf_nodes=100, max_features=auto, max_depth=8, criterion=mse,
bootstrap=False, total=   6.5s
[CV]  n_estimators=5, min_samples_split=20, min_samples_leaf=100,
max_leaf_nodes=20, max_features=sqrt, max_depth=6, criterion=mse,
bootstrap=False, total=   1.1s
[CV]  n_estimators=3, min_samples_split=20, min_samples_leaf=100,
max_leaf_nodes=100, max_features=auto, max_depth=8, criterion=mse,
bootstrap=False, total=   6.7s
[CV]  n_estimators=5, min_samples_split=20, min_samples_leaf=100,
max_leaf_nodes=20, max_features=sqrt, max_depth=6, criterion=mse,
```

```
bootstrap=False, total=   1.0s
[CV] n_estimators=4, min_samples_split=20, min_samples_leaf=20, ma
x_leaf_nodes=5, max_features=auto, max_depth=6, criterion=mse, boo
tstrap=True
[CV]  n_estimators=5, min_samples_split=20, min_samples_leaf=100,
max_leaf_nodes=20, max_features=sqrt, max_depth=6, criterion=mse,
bootstrap=False, total=   1.0s
[CV]  n_estimators=3, min_samples_split=20, min_samples_leaf=100,
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tstrap=True
[CV] n_estimators=3, min_samples_split=40, min_samples_leaf=20, ma
x_leaf_nodes=5, max_features=sqrt, max_depth=8, criterion=mse, boo
tstrap=False
[CV] n_estimators=3, min_samples_split=40, min_samples_leaf=20, ma
x_leaf_nodes=5, max_features=sqrt, max_depth=8, criterion=mse, boo
tstrap=False
[CV]  n_estimators=3, min_samples_split=20, min_samples_leaf=100,
max_leaf_nodes=100, max_features=auto, max_depth=8, criterion=mse,
bootstrap=False, total=   6.8s
[CV] n_estimators=3, min_samples_split=40, min_samples_leaf=20, ma
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tstrap=False
[CV] n_estimators=3, min_samples_split=40, min_samples_leaf=20, ma
x_leaf_nodes=5, max_features=sqrt, max_depth=8, criterion=mse, boo
tstrap=False
[CV]  n_estimators=3, min_samples_split=40, min_samples_leaf=20, m
ax_leaf_nodes=5, max_features=sqrt, max_depth=8, criterion=mse, bo
otstrap=False, total=   0.4s
[CV] n_estimators=3, min_samples_split=40, min_samples_leaf=20, ma
x_leaf_nodes=5, max_features=sqrt, max_depth=8, criterion=mse, boo
tstrap=False
[CV] n_estimators=9, min_samples_split=40, min_samples_leaf=20, ma
x_leaf_nodes=100, max_features=sqrt, max_depth=8, criterion=mse, b
ootstrap=False
[CV]  n_estimators=3, min_samples_split=40, min_samples_leaf=20, m
ax_leaf_nodes=5, max_features=sqrt, max_depth=8, criterion=mse, bo
otstrap=False, total=   0.4s
[CV]  n_estimators=3, min_samples_split=40, min_samples_leaf=20, m
ax_leaf_nodes=5, max_features=sqrt, max_depth=8, criterion=mse, bo
otstrap=False, total=   0.4s
[CV] n_estimators=9, min_samples_split=40, min_samples_leaf=20, ma
x_leaf_nodes=100, max_features=sqrt, max_depth=8, criterion=mse, b
ootstrap=False
[CV]  n_estimators=3, min_samples_split=20, min_samples_leaf=100,
max_leaf_nodes=100, max_features=auto, max_depth=8, criterion=mse,
bootstrap=False, total=   7.4s
[CV]  n_estimators=3, min_samples_split=40, min_samples_leaf=20, m
ax_leaf_nodes=5, max_features=sqrt, max_depth=8, criterion=mse, bo
otstrap=False, total=   0.4s
[CV] n_estimators=9, min_samples_split=40, min_samples_leaf=20, ma
x_leaf_nodes=100, max_features=sqrt, max_depth=8, criterion=mse, b
```

```
ootstrap=False
[CV]  n_estimators=3, min_samples_split=40, min_samples_leaf=20, m
ax_leaf_nodes=5, max_features=sqrt, max_depth=8, criterion=mse, bo
otstrap=False, total=   0.4s
[CV] n_estimators=9, min_samples_split=40, min_samples_leaf=20, ma
x_leaf_nodes=100, max_features=sqrt, max_depth=8, criterion=mse, b
ootstrap=False
[CV] n_estimators=9, min_samples_split=40, min_samples_leaf=20, ma
x_leaf_nodes=100, max_features=sqrt, max_depth=8, criterion=mse, b
ootstrap=False
[CV] n_estimators=9, min_samples_split=10, min_samples_leaf=100, m
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[CV] n_estimators=9, min_samples_split=10, min_samples_leaf=100, m
ax_leaf_nodes=20, max_features=sqrt, max_depth=8, criterion=mse, b
ootstrap=True
[CV] n_estimators=9, min_samples_split=10, min_samples_leaf=100, m
ax_leaf_nodes=20, max_features=sqrt, max_depth=8, criterion=mse, b
ootstrap=True
[CV] n_estimators=9, min_samples_split=10, min_samples_leaf=100, m
ax_leaf_nodes=20, max_features=sqrt, max_depth=8, criterion=mse, b
ootstrap=True
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ax_leaf_nodes=20, max_features=sqrt, max_depth=8, criterion=mse, b
ootstrap=True
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x_leaf_nodes=100, max_features=auto, max_depth=6, criterion=mse, b
ootstrap=False
[CV] n_estimators=8, min_samples_split=10, min_samples_leaf=40, ma
x_leaf_nodes=100, max_features=auto, max_depth=6, criterion=mse, b
ootstrap=False
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x_leaf_nodes=100, max_features=auto, max_depth=6, criterion=mse, b
ootstrap=False
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otstrap=True, total=   2.5s
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x_leaf_nodes=100, max_features=auto, max_depth=6, criterion=mse, b
ootstrap=False
[CV] n_estimators=8, min_samples_split=10, min_samples_leaf=40, ma
x_leaf_nodes=100, max_features=auto, max_depth=6, criterion=mse, b
ootstrap=False
[CV]  n_estimators=4, min_samples_split=20, min_samples_leaf=20, m
ax_leaf_nodes=5, max_features=auto, max_depth=6, criterion=mse, bo
otstrap=True, total=   2.6s
[CV]  n_estimators=4, min_samples_split=20, min_samples_leaf=20, m
ax_leaf_nodes=5, max_features=auto, max_depth=6, criterion=mse, bo
otstrap=True, total=   2.4s
[CV] n_estimators=2, min_samples_split=20, min_samples_leaf=40, ma
x_leaf_nodes=20, max_features=auto, max_depth=6, criterion=mse, bo
otstrap=True
[CV]  n_estimators=4, min_samples_split=20, min_samples_leaf=20, m
```

ax_leaf_nodes=5, max_features=auto, max_depth=6, criterion=mse, bo
otstrap=True, total=   2.6s
[CV] n_estimators=2, min_samples_split=20, min_samples_leaf=40, ma
x_leaf_nodes=20, max_features=auto, max_depth=6, criterion=mse, bo
otstrap=True
[CV] n_estimators=7, min_samples_split=10, min_samples_leaf=40, m
ax_leaf_nodes=5, max_features=auto, max_depth=6, criterion=mse, bo
otstrap=False, total=   6.1s
[CV] n_estimators=4, min_samples_split=20, min_samples_leaf=20, m
ax_leaf_nodes=5, max_features=auto, max_depth=6, criterion=mse, bo
otstrap=True, total=   2.5s
[CV] n_estimators=2, min_samples_split=20, min_samples_leaf=40, ma
x_leaf_nodes=20, max_features=auto, max_depth=6, criterion=mse, bo
otstrap=True
[CV] n_estimators=9, min_samples_split=10, min_samples_leaf=100,
max_leaf_nodes=20, max_features=sqrt, max_depth=8, criterion=mse,
bootstrap=True, total=   1.3s
[CV] n_estimators=2, min_samples_split=20, min_samples_leaf=40, ma
x_leaf_nodes=20, max_features=auto, max_depth=6, criterion=mse, bo
otstrap=True
[CV] n_estimators=9, min_samples_split=10, min_samples_leaf=100,
max_leaf_nodes=20, max_features=sqrt, max_depth=8, criterion=mse,
bootstrap=True, total=   1.2s
[CV] n_estimators=2, min_samples_split=20, min_samples_leaf=40, ma
x_leaf_nodes=20, max_features=auto, max_depth=6, criterion=mse, bo
otstrap=True
[CV] n_estimators=7, min_samples_split=10, min_samples_leaf=40, m
ax_leaf_nodes=5, max_features=auto, max_depth=6, criterion=mse, bo
otstrap=False, total=   6.2s
[CV] n_estimators=7, min_samples_split=20, min_samples_leaf=100, m
ax_leaf_nodes=100, max_features=sqrt, max_depth=2, criterion=mse,
bootstrap=True
[CV] n_estimators=9, min_samples_split=10, min_samples_leaf=100,
max_leaf_nodes=20, max_features=sqrt, max_depth=8, criterion=mse,
bootstrap=True, total=   1.3s
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bootstrap=True
[CV] n_estimators=7, min_samples_split=10, min_samples_leaf=40, m
ax_leaf_nodes=5, max_features=auto, max_depth=6, criterion=mse, bo
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[CV] n_estimators=7, min_samples_split=20, min_samples_leaf=100, m
ax_leaf_nodes=100, max_features=sqrt, max_depth=2, criterion=mse,
bootstrap=True
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bootstrap=True, total=   1.4s
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bootstrap=True
[CV] n_estimators=7, min_samples_split=20, min_samples_leaf=100, m
ax_leaf_nodes=100, max_features=sqrt, max_depth=2, criterion=mse,
bootstrap=True

```
[CV] n_estimators=3, min_samples_split=40, min_samples_leaf=100, m
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bootstrap=True, total=   1.8s
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ax_leaf_nodes=5, max_features=auto, max_depth=2, criterion=mse, bo
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[CV]  n_estimators=7, min_samples_split=10, min_samples_leaf=40, m
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ax_leaf_nodes=5, max_features=auto, max_depth=2, criterion=mse, bo
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[CV]  n_estimators=7, min_samples_split=20, min_samples_leaf=100,
max_leaf_nodes=100, max_features=sqrt, max_depth=2, criterion=mse,
bootstrap=True, total=   0.7s
[CV]  n_estimators=9, min_samples_split=40, min_samples_leaf=20, m
ax_leaf_nodes=100, max_features=sqrt, max_depth=8, criterion=mse,
bootstrap=False, total=   2.8s
[CV] n_estimators=3, min_samples_split=40, min_samples_leaf=100, m
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bootstrap=True, total=   0.6s
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bootstrap=True, total=   0.7s
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ootstrap=True
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bootstrap=False, total=   3.2s
[CV] n_estimators=7, min_samples_split=40, min_samples_leaf=100, m
ax_leaf_nodes=20, max_features=sqrt, max_depth=2, criterion=mse, b
ootstrap=True
[CV]  n_estimators=9, min_samples_split=40, min_samples_leaf=20, m
ax_leaf_nodes=100, max_features=sqrt, max_depth=8, criterion=mse,
bootstrap=False, total=   3.0s
[CV]  n_estimators=2, min_samples_split=20, min_samples_leaf=40, m
ax_leaf_nodes=20, max_features=auto, max_depth=6, criterion=mse, b
ootstrap=True, total=   1.8s
[CV] n_estimators=7, min_samples_split=40, min_samples_leaf=100, m
ax_leaf_nodes=20, max_features=sqrt, max_depth=2, criterion=mse, b
ootstrap=True
[CV]  n_estimators=9, min_samples_split=40, min_samples_leaf=20, m
ax_leaf_nodes=100, max_features=sqrt, max_depth=8, criterion=mse,
```

```
                    bootstrap=False, total=    2.9s
[CV]  n_estimators=9, min_samples_split=40, min_samples_leaf=20, m
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bootstrap=False, total=    3.1s
[CV]  n_estimators=2, min_samples_split=20, min_samples_leaf=40, m
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ootstrap=True, total=    1.8s
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[CV]  n_estimators=7, min_samples_split=10, min_samples_leaf=40, m
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otstrap=False, total=    7.7s
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[CV]  n_estimators=2, min_samples_split=20, min_samples_leaf=40, m
ax_leaf_nodes=20, max_features=auto, max_depth=6, criterion=mse, b
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[CV] n_estimators=4, min_samples_split=20, min_samples_leaf=40, ma
x_leaf_nodes=20, max_features=sqrt, max_depth=8, criterion=mse, bo
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[CV] n_estimators=4, min_samples_split=20, min_samples_leaf=40, ma
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bootstrap=True, total=    0.7s
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x_leaf_nodes=20, max_features=sqrt, max_depth=8, criterion=mse, bo
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[CV] n_estimators=4, min_samples_split=20, min_samples_leaf=40, m
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[CV] n_estimators=6, min_samples_split=10, min_samples_leaf=20, ma
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x_leaf_nodes=5, max_features=auto, max_depth=6, criterion=mse, boo
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```
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bootstrap=True, total=   0.6s
[CV] n_estimators=3, min_samples_split=10, min_samples_leaf=100, m
ax_leaf_nodes=5, max_features=auto, max_depth=6, criterion=mse, bo
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otstrap=False, total=   2.0s
[CV] n_estimators=3, min_samples_split=10, min_samples_leaf=100, m
ax_leaf_nodes=5, max_features=auto, max_depth=6, criterion=mse, bo
otstrap=False
[CV] n_estimators=3, min_samples_split=10, min_samples_leaf=100, m
ax_leaf_nodes=5, max_features=auto, max_depth=6, criterion=mse, bo
otstrap=False
[CV]  n_estimators=2, min_samples_split=20, min_samples_leaf=40, m
ax_leaf_nodes=5, max_features=auto, max_depth=8, criterion=mse, bo
otstrap=False, total=   2.1s
[CV] n_estimators=7, min_samples_split=40, min_samples_leaf=40, ma
x_leaf_nodes=20, max_features=auto, max_depth=2, criterion=mse, bo
otstrap=True
[CV]  n_estimators=6, min_samples_split=10, min_samples_leaf=20, m
ax_leaf_nodes=100, max_features=auto, max_depth=2, criterion=mse,
bootstrap=True, total=   3.9s
[CV]  n_estimators=2, min_samples_split=20, min_samples_leaf=40, m
ax_leaf_nodes=5, max_features=auto, max_depth=8, criterion=mse, bo
otstrap=False, total=   2.1s
[CV] n_estimators=7, min_samples_split=40, min_samples_leaf=40, ma
x_leaf_nodes=20, max_features=auto, max_depth=2, criterion=mse, bo
otstrap=True
[CV] n_estimators=7, min_samples_split=40, min_samples_leaf=40, ma
x_leaf_nodes=20, max_features=auto, max_depth=2, criterion=mse, bo
otstrap=True
[CV] n_estimators=7, min_samples_split=40, min_samples_leaf=40, ma
x_leaf_nodes=20, max_features=auto, max_depth=2, criterion=mse, bo
otstrap=True
[CV]  n_estimators=6, min_samples_split=10, min_samples_leaf=20, m
ax_leaf_nodes=100, max_features=auto, max_depth=2, criterion=mse,
bootstrap=True, total=   3.9s
[CV]  n_estimators=5, min_samples_split=20, min_samples_leaf=100,
max_leaf_nodes=100, max_features=auto, max_depth=6, criterion=mse,
bootstrap=False, total=  10.3s
[CV]  n_estimators=6, min_samples_split=10, min_samples_leaf=20, m
ax_leaf_nodes=100, max_features=auto, max_depth=2, criterion=mse,
bootstrap=True, total=   4.2s
[CV] n_estimators=7, min_samples_split=40, min_samples_leaf=40, ma
x_leaf_nodes=20, max_features=auto, max_depth=2, criterion=mse, bo
otstrap=True
[CV]  n_estimators=2, min_samples_split=20, min_samples_leaf=40, m
ax_leaf_nodes=5, max_features=auto, max_depth=8, criterion=mse, bo
otstrap=False, total=   2.4s
[CV]  n_estimators=5, min_samples_split=20, min_samples_leaf=100,
max_leaf_nodes=100, max_features=auto, max_depth=6, criterion=mse,
```

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bootstrap=False, total=   10.4s
[CV]  n_estimators=6, min_samples_split=10, min_samples_leaf=20, m
ax_leaf_nodes=100, max_features=auto, max_depth=2, criterion=mse,
bootstrap=True, total=    4.0s
[CV] n_estimators=5, min_samples_split=40, min_samples_leaf=100, m
ax_leaf_nodes=20, max_features=sqrt, max_depth=2, criterion=mse, b
ootstrap=True
[CV]  n_estimators=6, min_samples_split=10, min_samples_leaf=20, m
ax_leaf_nodes=100, max_features=auto, max_depth=2, criterion=mse,
bootstrap=True, total=    4.2s
[CV] n_estimators=5, min_samples_split=40, min_samples_leaf=100, m
ax_leaf_nodes=20, max_features=sqrt, max_depth=2, criterion=mse, b
ootstrap=True
[CV] n_estimators=5, min_samples_split=40, min_samples_leaf=100, m
ax_leaf_nodes=20, max_features=sqrt, max_depth=2, criterion=mse, b
ootstrap=True
[CV]  n_estimators=2, min_samples_split=20, min_samples_leaf=40, m
ax_leaf_nodes=5, max_features=auto, max_depth=8, criterion=mse, bo
otstrap=False, total=    2.6s
[CV] n_estimators=5, min_samples_split=40, min_samples_leaf=100, m
ax_leaf_nodes=20, max_features=sqrt, max_depth=2, criterion=mse, b
ootstrap=True
[CV] n_estimators=5, min_samples_split=40, min_samples_leaf=100, m
ax_leaf_nodes=20, max_features=sqrt, max_depth=2, criterion=mse, b
ootstrap=True
[CV]  n_estimators=5, min_samples_split=20, min_samples_leaf=100,
max_leaf_nodes=100, max_features=auto, max_depth=6, criterion=mse,
bootstrap=False, total=   10.7s
[CV] n_estimators=5, min_samples_split=20, min_samples_leaf=40, ma
x_leaf_nodes=20, max_features=auto, max_depth=6, criterion=mse, bo
otstrap=False
[CV] n_estimators=5, min_samples_split=20, min_samples_leaf=40, ma
x_leaf_nodes=20, max_features=auto, max_depth=6, criterion=mse, bo
otstrap=False
[CV]  n_estimators=5, min_samples_split=40, min_samples_leaf=100,
max_leaf_nodes=20, max_features=sqrt, max_depth=2, criterion=mse,
bootstrap=True, total=    0.7s
[CV] n_estimators=5, min_samples_split=20, min_samples_leaf=40, ma
x_leaf_nodes=20, max_features=auto, max_depth=6, criterion=mse, bo
otstrap=False
[CV]  n_estimators=5, min_samples_split=20, min_samples_leaf=100,
max_leaf_nodes=100, max_features=auto, max_depth=6, criterion=mse,
bootstrap=False, total=   10.9s
[CV] n_estimators=5, min_samples_split=20, min_samples_leaf=40, ma
x_leaf_nodes=20, max_features=auto, max_depth=6, criterion=mse, bo
otstrap=False
[CV]  n_estimators=5, min_samples_split=40, min_samples_leaf=100,
max_leaf_nodes=20, max_features=sqrt, max_depth=2, criterion=mse,
bootstrap=True, total=    0.8s
[CV]  n_estimators=5, min_samples_split=40, min_samples_leaf=100,
max_leaf_nodes=20, max_features=sqrt, max_depth=2, criterion=mse,
bootstrap=True, total=    0.8s
[CV] n_estimators=5, min_samples_split=20, min_samples_leaf=40, ma
```

```
x_leaf_nodes=20, max_features=auto, max_depth=6, criterion=mse, bo
otstrap=False
[CV]  n_estimators=5, min_samples_split=20, min_samples_leaf=100,
max_leaf_nodes=100, max_features=auto, max_depth=6, criterion=mse,
bootstrap=False, total=  11.4s
[CV]  n_estimators=5, min_samples_split=40, min_samples_leaf=100,
max_leaf_nodes=20, max_features=sqrt, max_depth=2, criterion=mse,
bootstrap=True, total=   0.8s
[CV] n_estimators=8, min_samples_split=10, min_samples_leaf=20, ma
x_leaf_nodes=100, max_features=sqrt, max_depth=2, criterion=mse, b
ootstrap=False
[CV]  n_estimators=5, min_samples_split=40, min_samples_leaf=100,
max_leaf_nodes=20, max_features=sqrt, max_depth=2, criterion=mse,
bootstrap=True, total=   0.7s
[CV] n_estimators=8, min_samples_split=10, min_samples_leaf=20, ma
x_leaf_nodes=100, max_features=sqrt, max_depth=2, criterion=mse, b
ootstrap=False
[CV] n_estimators=8, min_samples_split=10, min_samples_leaf=20, ma
x_leaf_nodes=100, max_features=sqrt, max_depth=2, criterion=mse, b
ootstrap=False
[CV] n_estimators=8, min_samples_split=10, min_samples_leaf=20, ma
x_leaf_nodes=100, max_features=sqrt, max_depth=2, criterion=mse, b
ootstrap=False
[CV] n_estimators=8, min_samples_split=10, min_samples_leaf=20, ma
x_leaf_nodes=100, max_features=sqrt, max_depth=2, criterion=mse, b
ootstrap=False
[CV] n_estimators=2, min_samples_split=40, min_samples_leaf=40, ma
x_leaf_nodes=5, max_features=auto, max_depth=6, criterion=mse, boo
tstrap=False
[CV] n_estimators=2, min_samples_split=40, min_samples_leaf=40, ma
x_leaf_nodes=5, max_features=auto, max_depth=6, criterion=mse, boo
tstrap=False
[CV] n_estimators=2, min_samples_split=40, min_samples_leaf=40, ma
x_leaf_nodes=5, max_features=auto, max_depth=6, criterion=mse, boo
tstrap=False
[CV] n_estimators=2, min_samples_split=40, min_samples_leaf=40, ma
x_leaf_nodes=5, max_features=auto, max_depth=6, criterion=mse, boo
tstrap=False
[CV]  n_estimators=8, min_samples_split=20, min_samples_leaf=20, m
ax_leaf_nodes=5, max_features=auto, max_depth=6, criterion=mse, bo
otstrap=True, total=   5.4s
[CV] n_estimators=2, min_samples_split=40, min_samples_leaf=40, ma
x_leaf_nodes=5, max_features=auto, max_depth=6, criterion=mse, boo
tstrap=False
[CV] n_estimators=7, min_samples_split=10, min_samples_leaf=100, m
ax_leaf_nodes=100, max_features=sqrt, max_depth=6, criterion=mse,
bootstrap=True
[CV]  n_estimators=8, min_samples_split=10, min_samples_leaf=20, m
ax_leaf_nodes=100, max_features=sqrt, max_depth=2, criterion=mse,
bootstrap=False, total=   1.1s
[CV] n_estimators=7, min_samples_split=10, min_samples_leaf=100, m
ax_leaf_nodes=100, max_features=sqrt, max_depth=6, criterion=mse,
bootstrap=True
```

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[CV]  n_estimators=8, min_samples_split=20, min_samples_leaf=20, m
ax_leaf_nodes=5, max_features=auto, max_depth=6, criterion=mse, bo
otstrap=True, total=   5.8s
[CV] n_estimators=7, min_samples_split=10, min_samples_leaf=100, m
ax_leaf_nodes=100, max_features=sqrt, max_depth=6, criterion=mse,
bootstrap=True
[CV]  n_estimators=8, min_samples_split=20, min_samples_leaf=20, m
ax_leaf_nodes=5, max_features=auto, max_depth=6, criterion=mse, bo
otstrap=True, total=   5.6s
[CV]  n_estimators=3, min_samples_split=10, min_samples_leaf=100,
max_leaf_nodes=5, max_features=auto, max_depth=6, criterion=mse, b
ootstrap=False, total=   3.5s
[CV] n_estimators=7, min_samples_split=10, min_samples_leaf=100, m
ax_leaf_nodes=100, max_features=sqrt, max_depth=6, criterion=mse,
bootstrap=True
[CV]  n_estimators=3, min_samples_split=10, min_samples_leaf=100,
max_leaf_nodes=5, max_features=auto, max_depth=6, criterion=mse, b
ootstrap=False, total=   3.4s
[CV]  n_estimators=8, min_samples_split=10, min_samples_leaf=20, m
ax_leaf_nodes=100, max_features=sqrt, max_depth=2, criterion=mse,
bootstrap=False, total=   1.3s
[CV] n_estimators=7, min_samples_split=10, min_samples_leaf=100, m
ax_leaf_nodes=100, max_features=sqrt, max_depth=6, criterion=mse,
bootstrap=True
[CV] n_estimators=8, min_samples_split=10, min_samples_leaf=100, m
ax_leaf_nodes=100, max_features=auto, max_depth=6, criterion=mse,
bootstrap=False
[CV]  n_estimators=8, min_samples_split=10, min_samples_leaf=20, m
ax_leaf_nodes=100, max_features=sqrt, max_depth=2, criterion=mse,
bootstrap=False, total=   1.3s
[CV]  n_estimators=8, min_samples_split=10, min_samples_leaf=20, m
ax_leaf_nodes=100, max_features=sqrt, max_depth=2, criterion=mse,
bootstrap=False, total=   1.2s
[CV]  n_estimators=8, min_samples_split=10, min_samples_leaf=20, m
ax_leaf_nodes=100, max_features=sqrt, max_depth=2, criterion=mse,
bootstrap=False, total=   1.5s
[CV] n_estimators=8, min_samples_split=10, min_samples_leaf=100, m
ax_leaf_nodes=100, max_features=auto, max_depth=6, criterion=mse,
bootstrap=False
[CV]  n_estimators=3, min_samples_split=10, min_samples_leaf=100,
max_leaf_nodes=5, max_features=auto, max_depth=6, criterion=mse, b
ootstrap=False, total=   3.9s
[CV]  n_estimators=3, min_samples_split=10, min_samples_leaf=100,
max_leaf_nodes=5, max_features=auto, max_depth=6, criterion=mse, b
ootstrap=False, total=   4.1s
[CV] n_estimators=8, min_samples_split=10, min_samples_leaf=100, m
ax_leaf_nodes=100, max_features=auto, max_depth=6, criterion=mse,
bootstrap=False
[CV] n_estimators=8, min_samples_split=10, min_samples_leaf=100, m
ax_leaf_nodes=100, max_features=auto, max_depth=6, criterion=mse,
bootstrap=False
[CV] n_estimators=8, min_samples_split=10, min_samples_leaf=100, m
ax_leaf_nodes=100, max_features=auto, max_depth=6, criterion=mse,
```

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                    bootstrap=False
                    [CV]  n_estimators=8, min_samples_split=20, min_samples_leaf=20, m
                    ax_leaf_nodes=5, max_features=auto, max_depth=6, criterion=mse, bo
                    otstrap=True, total=   6.6s
                    [CV] n_estimators=9, min_samples_split=10, min_samples_leaf=40, ma
                    x_leaf_nodes=20, max_features=auto, max_depth=6, criterion=mse, bo
                    otstrap=True
                    [CV] n_estimators=9, min_samples_split=10, min_samples_leaf=40, ma
                    x_leaf_nodes=20, max_features=auto, max_depth=6, criterion=mse, bo
                    otstrap=True

                    [Parallel(n_jobs=-1)]: Done 253 tasks       | elapsed:   32.4s

                    [CV]  n_estimators=3, min_samples_split=10, min_samples_leaf=100,
                    max_leaf_nodes=5, max_features=auto, max_depth=6, criterion=mse, b
                    ootstrap=False, total=   4.2s
                    [CV] n_estimators=9, min_samples_split=10, min_samples_leaf=40, ma
                    x_leaf_nodes=20, max_features=auto, max_depth=6, criterion=mse, bo
                    otstrap=True
                    [CV] n_estimators=9, min_samples_split=10, min_samples_leaf=40, ma
                    x_leaf_nodes=20, max_features=auto, max_depth=6, criterion=mse, bo
                    otstrap=True
                    [CV] n_estimators=9, min_samples_split=10, min_samples_leaf=40, ma
                    x_leaf_nodes=20, max_features=auto, max_depth=6, criterion=mse, bo
                    otstrap=True
                    [CV]  n_estimators=8, min_samples_split=20, min_samples_leaf=20, m
                    ax_leaf_nodes=5, max_features=auto, max_depth=6, criterion=mse, bo
                    otstrap=True, total=   6.9s
                    [CV] n_estimators=6, min_samples_split=40, min_samples_leaf=20, ma
                    x_leaf_nodes=5, max_features=sqrt, max_depth=8, criterion=mse, boo
                    tstrap=False
                    [CV] n_estimators=6, min_samples_split=40, min_samples_leaf=20, ma
                    x_leaf_nodes=5, max_features=sqrt, max_depth=8, criterion=mse, boo
                    tstrap=False
                    [CV] n_estimators=6, min_samples_split=40, min_samples_leaf=20, ma
                    x_leaf_nodes=5, max_features=sqrt, max_depth=8, criterion=mse, boo
                    tstrap=False
                    [CV]  n_estimators=2, min_samples_split=40, min_samples_leaf=40, m
                    ax_leaf_nodes=5, max_features=auto, max_depth=6, criterion=mse, bo
                    otstrap=False, total=   2.5s
                    [CV]  n_estimators=2, min_samples_split=40, min_samples_leaf=40, m
                    ax_leaf_nodes=5, max_features=auto, max_depth=6, criterion=mse, bo
                    otstrap=False, total=   2.6s
                    [CV] n_estimators=6, min_samples_split=40, min_samples_leaf=20, ma
                    x_leaf_nodes=5, max_features=sqrt, max_depth=8, criterion=mse, boo
                    tstrap=False
                    [CV]  n_estimators=7, min_samples_split=10, min_samples_leaf=100,
                    max_leaf_nodes=100, max_features=sqrt, max_depth=6, criterion=mse,
                    bootstrap=True, total=   2.1s
                    [CV] n_estimators=6, min_samples_split=40, min_samples_leaf=20, ma
                    x_leaf_nodes=5, max_features=sqrt, max_depth=8, criterion=mse, boo
                    tstrap=False
                    [CV] n_estimators=4, min_samples_split=10, min_samples_leaf=20, ma
                    x_leaf_nodes=20, max_features=auto, max_depth=6, criterion=mse, bo
```

```
otstrap=False
[CV]  n_estimators=7, min_samples_split=10, min_samples_leaf=100,
max_leaf_nodes=100, max_features=sqrt, max_depth=6, criterion=mse,
bootstrap=True, total=   2.1s
[CV]  n_estimators=2, min_samples_split=40, min_samples_leaf=40, m
ax_leaf_nodes=5, max_features=auto, max_depth=6, criterion=mse, bo
otstrap=False, total=   2.7s
[CV]  n_estimators=2, min_samples_split=40, min_samples_leaf=40, m
ax_leaf_nodes=5, max_features=auto, max_depth=6, criterion=mse, bo
otstrap=False, total=   2.6s
[CV] n_estimators=4, min_samples_split=10, min_samples_leaf=20, ma
x_leaf_nodes=20, max_features=auto, max_depth=6, criterion=mse, bo
otstrap=False
[CV]  n_estimators=7, min_samples_split=10, min_samples_leaf=100,
max_leaf_nodes=100, max_features=sqrt, max_depth=6, criterion=mse,
bootstrap=True, total=   2.0s
[CV]  n_estimators=2, min_samples_split=40, min_samples_leaf=40, m
ax_leaf_nodes=5, max_features=auto, max_depth=6, criterion=mse, bo
otstrap=False, total=   2.5s
[CV] n_estimators=4, min_samples_split=10, min_samples_leaf=20, ma
x_leaf_nodes=20, max_features=auto, max_depth=6, criterion=mse, bo
otstrap=False
[CV]  n_estimators=7, min_samples_split=10, min_samples_leaf=100,
max_leaf_nodes=100, max_features=sqrt, max_depth=6, criterion=mse,
bootstrap=True, total=   2.3s
[CV] n_estimators=4, min_samples_split=10, min_samples_leaf=20, ma
x_leaf_nodes=20, max_features=auto, max_depth=6, criterion=mse, bo
otstrap=False
[CV]  n_estimators=7, min_samples_split=10, min_samples_leaf=100,
max_leaf_nodes=100, max_features=sqrt, max_depth=6, criterion=mse,
bootstrap=True, total=   2.2s
[CV] n_estimators=4, min_samples_split=10, min_samples_leaf=20, ma
x_leaf_nodes=20, max_features=auto, max_depth=6, criterion=mse, bo
otstrap=False
[CV] n_estimators=2, min_samples_split=10, min_samples_leaf=40, ma
x_leaf_nodes=20, max_features=auto, max_depth=6, criterion=mse, bo
otstrap=False
[CV]  n_estimators=6, min_samples_split=40, min_samples_leaf=20, m
ax_leaf_nodes=5, max_features=sqrt, max_depth=8, criterion=mse, bo
otstrap=False, total=   1.1s
[CV] n_estimators=2, min_samples_split=10, min_samples_leaf=40, ma
x_leaf_nodes=20, max_features=auto, max_depth=6, criterion=mse, bo
otstrap=False
[CV]  n_estimators=6, min_samples_split=40, min_samples_leaf=20, m
ax_leaf_nodes=5, max_features=sqrt, max_depth=8, criterion=mse, bo
otstrap=False, total=   1.1s
[CV]  n_estimators=6, min_samples_split=40, min_samples_leaf=20, m
ax_leaf_nodes=5, max_features=sqrt, max_depth=8, criterion=mse, bo
otstrap=False, total=   0.9s
[CV] n_estimators=2, min_samples_split=10, min_samples_leaf=40, ma
x_leaf_nodes=20, max_features=auto, max_depth=6, criterion=mse, bo
otstrap=False
[CV]  n_estimators=6, min_samples_split=40, min_samples_leaf=20, m
ax_leaf_nodes=5, max_features=sqrt, max_depth=8, criterion=mse, bo
```

```
otstrap=False, total=   1.1s
[CV]  n_estimators=7, min_samples_split=40, min_samples_leaf=40, m
ax_leaf_nodes=20, max_features=auto, max_depth=2, criterion=mse, b
ootstrap=True, total=   5.8s
[CV] n_estimators=2, min_samples_split=10, min_samples_leaf=40, ma
x_leaf_nodes=20, max_features=auto, max_depth=6, criterion=mse, bo
otstrap=False
[CV] n_estimators=2, min_samples_split=10, min_samples_leaf=40, ma
x_leaf_nodes=20, max_features=auto, max_depth=6, criterion=mse, bo
otstrap=False
[CV]  n_estimators=7, min_samples_split=40, min_samples_leaf=40, m
ax_leaf_nodes=20, max_features=auto, max_depth=2, criterion=mse, b
ootstrap=True, total=   6.2s
[CV]  n_estimators=7, min_samples_split=40, min_samples_leaf=40, m
ax_leaf_nodes=20, max_features=auto, max_depth=2, criterion=mse, b
ootstrap=True, total=   5.8s
[CV] n_estimators=8, min_samples_split=20, min_samples_leaf=20, ma
x_leaf_nodes=100, max_features=sqrt, max_depth=8, criterion=mse, b
ootstrap=True
[CV] n_estimators=8, min_samples_split=20, min_samples_leaf=20, ma
x_leaf_nodes=100, max_features=sqrt, max_depth=8, criterion=mse, b
ootstrap=True
[CV] n_estimators=8, min_samples_split=20, min_samples_leaf=20, ma
x_leaf_nodes=100, max_features=sqrt, max_depth=8, criterion=mse, b
ootstrap=True
[CV]  n_estimators=6, min_samples_split=40, min_samples_leaf=20, m
ax_leaf_nodes=5, max_features=sqrt, max_depth=8, criterion=mse, bo
otstrap=False, total=   1.5s
[CV] n_estimators=8, min_samples_split=20, min_samples_leaf=20, ma
x_leaf_nodes=100, max_features=sqrt, max_depth=8, criterion=mse, b
ootstrap=True
[CV] n_estimators=8, min_samples_split=20, min_samples_leaf=20, ma
x_leaf_nodes=100, max_features=sqrt, max_depth=8, criterion=mse, b
ootstrap=True
[CV]  n_estimators=7, min_samples_split=40, min_samples_leaf=40, m
ax_leaf_nodes=20, max_features=auto, max_depth=2, criterion=mse, b
ootstrap=True, total=   6.7s
[CV] n_estimators=6, min_samples_split=10, min_samples_leaf=100, m
ax_leaf_nodes=5, max_features=sqrt, max_depth=2, criterion=mse, bo
otstrap=True
[CV]  n_estimators=7, min_samples_split=40, min_samples_leaf=40, m
ax_leaf_nodes=20, max_features=auto, max_depth=2, criterion=mse, b
ootstrap=True, total=   6.7s
[CV] n_estimators=6, min_samples_split=10, min_samples_leaf=100, m
ax_leaf_nodes=5, max_features=sqrt, max_depth=2, criterion=mse, bo
otstrap=True
[CV] n_estimators=6, min_samples_split=10, min_samples_leaf=100, m
ax_leaf_nodes=5, max_features=sqrt, max_depth=2, criterion=mse, bo
otstrap=True
[CV] n_estimators=6, min_samples_split=10, min_samples_leaf=100, m
ax_leaf_nodes=5, max_features=sqrt, max_depth=2, criterion=mse, bo
otstrap=True
[CV] n_estimators=6, min_samples_split=10, min_samples_leaf=100, m
ax_leaf_nodes=5, max_features=sqrt, max_depth=2, criterion=mse, bo
```

```
otstrap=True
[CV]  n_estimators=9, min_samples_split=40, min_samples_leaf=20, ma
x_leaf_nodes=100, max_features=auto, max_depth=8, criterion=mse, b
ootstrap=True
[CV]  n_estimators=9, min_samples_split=20, min_samples_leaf=100,
max_leaf_nodes=100, max_features=auto, max_depth=8, criterion=mse,
bootstrap=False, total=  22.0s
[CV]  n_estimators=9, min_samples_split=40, min_samples_leaf=20, ma
x_leaf_nodes=100, max_features=auto, max_depth=8, criterion=mse, b
ootstrap=True
[CV]  n_estimators=9, min_samples_split=20, min_samples_leaf=100,
max_leaf_nodes=100, max_features=auto, max_depth=8, criterion=mse,
bootstrap=False, total=  22.0s
[CV]  n_estimators=9, min_samples_split=40, min_samples_leaf=20, ma
x_leaf_nodes=100, max_features=auto, max_depth=8, criterion=mse, b
ootstrap=True
[CV]  n_estimators=9, min_samples_split=20, min_samples_leaf=100,
max_leaf_nodes=100, max_features=auto, max_depth=8, criterion=mse,
bootstrap=False, total=  22.2s
[CV]  n_estimators=6, min_samples_split=10, min_samples_leaf=100,
max_leaf_nodes=5, max_features=sqrt, max_depth=2, criterion=mse, b
ootstrap=True, total=   0.9s
[CV]  n_estimators=6, min_samples_split=10, min_samples_leaf=100,
max_leaf_nodes=5, max_features=sqrt, max_depth=2, criterion=mse, b
ootstrap=True, total=   0.8s
[CV]  n_estimators=9, min_samples_split=40, min_samples_leaf=20, ma
x_leaf_nodes=100, max_features=auto, max_depth=8, criterion=mse, b
ootstrap=True
[CV]  n_estimators=6, min_samples_split=10, min_samples_leaf=100,
max_leaf_nodes=5, max_features=sqrt, max_depth=2, criterion=mse, b
ootstrap=True, total=   0.8s
[CV]  n_estimators=9, min_samples_split=40, min_samples_leaf=20, ma
x_leaf_nodes=100, max_features=auto, max_depth=8, criterion=mse, b
ootstrap=True
[CV]  n_estimators=8, min_samples_split=40, min_samples_leaf=100, m
ax_leaf_nodes=20, max_features=sqrt, max_depth=2, criterion=mse, b
ootstrap=True
[CV]  n_estimators=6, min_samples_split=10, min_samples_leaf=100,
max_leaf_nodes=5, max_features=sqrt, max_depth=2, criterion=mse, b
ootstrap=True, total=   0.9s
[CV]  n_estimators=8, min_samples_split=40, min_samples_leaf=100, m
ax_leaf_nodes=20, max_features=sqrt, max_depth=2, criterion=mse, b
ootstrap=True
[CV]  n_estimators=9, min_samples_split=20, min_samples_leaf=100,
max_leaf_nodes=100, max_features=auto, max_depth=8, criterion=mse,
bootstrap=False, total=  22.4s
[CV]  n_estimators=8, min_samples_split=40, min_samples_leaf=100, m
ax_leaf_nodes=20, max_features=sqrt, max_depth=2, criterion=mse, b
ootstrap=True
[CV]  n_estimators=6, min_samples_split=10, min_samples_leaf=100,
max_leaf_nodes=5, max_features=sqrt, max_depth=2, criterion=mse, b
ootstrap=True, total=   1.0s
[CV]  n_estimators=8, min_samples_split=40, min_samples_leaf=100, m
ax_leaf_nodes=20, max_features=sqrt, max_depth=2, criterion=mse, b
```

```
ootstrap=True
[CV]  n_estimators=9, min_samples_split=20, min_samples_leaf=100,
max_leaf_nodes=100, max_features=auto, max_depth=8, criterion=mse,
bootstrap=False, total=  22.8s
[CV] n_estimators=8, min_samples_split=40, min_samples_leaf=100, m
ax_leaf_nodes=20, max_features=sqrt, max_depth=2, criterion=mse, b
ootstrap=True
[CV] n_estimators=2, min_samples_split=40, min_samples_leaf=20, ma
x_leaf_nodes=20, max_features=auto, max_depth=2, criterion=mse, bo
otstrap=False
[CV] n_estimators=2, min_samples_split=40, min_samples_leaf=20, ma
x_leaf_nodes=20, max_features=auto, max_depth=2, criterion=mse, bo
otstrap=False
[CV] n_estimators=2, min_samples_split=40, min_samples_leaf=20, ma
x_leaf_nodes=20, max_features=auto, max_depth=2, criterion=mse, bo
otstrap=False
[CV]  n_estimators=8, min_samples_split=20, min_samples_leaf=20, m
ax_leaf_nodes=100, max_features=sqrt, max_depth=8, criterion=mse,
bootstrap=True, total=   2.6s
[CV] n_estimators=2, min_samples_split=40, min_samples_leaf=20, ma
x_leaf_nodes=20, max_features=auto, max_depth=2, criterion=mse, bo
otstrap=False
[CV] n_estimators=2, min_samples_split=40, min_samples_leaf=20, ma
x_leaf_nodes=20, max_features=auto, max_depth=2, criterion=mse, bo
otstrap=False
[CV]  n_estimators=8, min_samples_split=20, min_samples_leaf=20, m
ax_leaf_nodes=100, max_features=sqrt, max_depth=8, criterion=mse,
bootstrap=True, total=   2.6s
[CV] n_estimators=4, min_samples_split=40, min_samples_leaf=40, ma
x_leaf_nodes=20, max_features=auto, max_depth=8, criterion=mse, bo
otstrap=False
[CV]  n_estimators=8, min_samples_split=20, min_samples_leaf=20, m
ax_leaf_nodes=100, max_features=sqrt, max_depth=8, criterion=mse,
bootstrap=True, total=   2.6s
[CV]  n_estimators=8, min_samples_split=20, min_samples_leaf=20, m
ax_leaf_nodes=100, max_features=sqrt, max_depth=8, criterion=mse,
bootstrap=True, total=   2.5s
[CV]  n_estimators=8, min_samples_split=20, min_samples_leaf=20, m
ax_leaf_nodes=100, max_features=sqrt, max_depth=8, criterion=mse,
bootstrap=True, total=   2.9s
[CV] n_estimators=4, min_samples_split=40, min_samples_leaf=40, ma
x_leaf_nodes=20, max_features=auto, max_depth=8, criterion=mse, bo
otstrap=False
[CV]  n_estimators=8, min_samples_split=40, min_samples_leaf=100,
max_leaf_nodes=20, max_features=sqrt, max_depth=2, criterion=mse,
bootstrap=True, total=   1.2s
[CV]  n_estimators=8, min_samples_split=40, min_samples_leaf=100,
max_leaf_nodes=20, max_features=sqrt, max_depth=2, criterion=mse,
bootstrap=True, total=   1.1s
[CV] n_estimators=4, min_samples_split=40, min_samples_leaf=40, ma
x_leaf_nodes=20, max_features=auto, max_depth=8, criterion=mse, bo
otstrap=False
[CV]  n_estimators=6, min_samples_split=40, min_samples_leaf=40, m
ax_leaf_nodes=20, max_features=auto, max_depth=8, criterion=mse, b
```

```
ootstrap=False, total=  10.7s
[CV]  n_estimators=2, min_samples_split=10, min_samples_leaf=40, m
ax_leaf_nodes=20, max_features=auto, max_depth=6, criterion=mse, b
ootstrap=False, total=   3.7s
[CV] n_estimators=8, min_samples_split=40, min_samples_leaf=100,
max_leaf_nodes=20, max_features=sqrt, max_depth=2, criterion=mse,
bootstrap=True, total=   1.2s
[CV] n_estimators=4, min_samples_split=40, min_samples_leaf=40, ma
x_leaf_nodes=20, max_features=auto, max_depth=8, criterion=mse, bo
otstrap=False
[CV]  n_estimators=2, min_samples_split=10, min_samples_leaf=40, m
ax_leaf_nodes=20, max_features=auto, max_depth=6, criterion=mse, b
ootstrap=False, total=   3.9s
[CV]  n_estimators=8, min_samples_split=40, min_samples_leaf=100,
max_leaf_nodes=20, max_features=sqrt, max_depth=2, criterion=mse,
bootstrap=True, total=   1.2s
[CV]  n_estimators=6, min_samples_split=40, min_samples_leaf=40, m
ax_leaf_nodes=20, max_features=auto, max_depth=8, criterion=mse, b
ootstrap=False, total=  10.7s
[CV] n_estimators=4, min_samples_split=40, min_samples_leaf=40, ma
x_leaf_nodes=20, max_features=auto, max_depth=8, criterion=mse, bo
otstrap=False
[CV]  n_estimators=2, min_samples_split=10, min_samples_leaf=40, m
ax_leaf_nodes=20, max_features=auto, max_depth=6, criterion=mse, b
ootstrap=False, total=   4.1s
[CV]  n_estimators=8, min_samples_split=40, min_samples_leaf=100,
max_leaf_nodes=20, max_features=sqrt, max_depth=2, criterion=mse,
bootstrap=True, total=   1.2s
[CV]  n_estimators=6, min_samples_split=40, min_samples_leaf=40, m
ax_leaf_nodes=20, max_features=auto, max_depth=8, criterion=mse, b
ootstrap=False, total=  10.9s
[CV] n_estimators=3, min_samples_split=20, min_samples_leaf=20, ma
x_leaf_nodes=100, max_features=sqrt, max_depth=8, criterion=mse, b
ootstrap=False
[CV] n_estimators=3, min_samples_split=20, min_samples_leaf=20, ma
x_leaf_nodes=100, max_features=sqrt, max_depth=8, criterion=mse, b
ootstrap=False
[CV]  n_estimators=2, min_samples_split=10, min_samples_leaf=40, m
ax_leaf_nodes=20, max_features=auto, max_depth=6, criterion=mse, b
ootstrap=False, total=   4.0s
[CV] n_estimators=3, min_samples_split=20, min_samples_leaf=20, ma
x_leaf_nodes=100, max_features=sqrt, max_depth=8, criterion=mse, b
ootstrap=False
[CV]  n_estimators=2, min_samples_split=10, min_samples_leaf=40, m
ax_leaf_nodes=20, max_features=auto, max_depth=6, criterion=mse, b
ootstrap=False, total=   4.1s
[CV]  n_estimators=5, min_samples_split=20, min_samples_leaf=40, m
ax_leaf_nodes=20, max_features=auto, max_depth=6, criterion=mse, b
ootstrap=False, total=   9.3s
[CV] n_estimators=3, min_samples_split=20, min_samples_leaf=20, ma
x_leaf_nodes=100, max_features=sqrt, max_depth=8, criterion=mse, b
ootstrap=False
[CV]  n_estimators=6, min_samples_split=40, min_samples_leaf=40, m
ax_leaf_nodes=20, max_features=auto, max_depth=8, criterion=mse, b
```

```
ootstrap=False, total=   11.2s
[CV] n_estimators=3, min_samples_split=20, min_samples_leaf=20, ma
x_leaf_nodes=100, max_features=sqrt, max_depth=8, criterion=mse, b
ootstrap=False
[CV] n_estimators=4, min_samples_split=10, min_samples_leaf=20, ma
x_leaf_nodes=20, max_features=auto, max_depth=8, criterion=mse, bo
otstrap=True
[CV]  n_estimators=5, min_samples_split=20, min_samples_leaf=40, m
ax_leaf_nodes=20, max_features=auto, max_depth=6, criterion=mse, b
ootstrap=False, total=    9.4s
[CV] n_estimators=4, min_samples_split=10, min_samples_leaf=20, ma
x_leaf_nodes=20, max_features=auto, max_depth=8, criterion=mse, bo
otstrap=True
[CV]  n_estimators=6, min_samples_split=40, min_samples_leaf=40, m
ax_leaf_nodes=20, max_features=auto, max_depth=8, criterion=mse, b
ootstrap=False, total=   11.5s
[CV] n_estimators=4, min_samples_split=10, min_samples_leaf=20, ma
x_leaf_nodes=20, max_features=auto, max_depth=8, criterion=mse, bo
otstrap=True
[CV]  n_estimators=5, min_samples_split=20, min_samples_leaf=40, m
ax_leaf_nodes=20, max_features=auto, max_depth=6, criterion=mse, b
ootstrap=False, total=    9.4s
[CV] n_estimators=4, min_samples_split=10, min_samples_leaf=20, ma
x_leaf_nodes=20, max_features=auto, max_depth=8, criterion=mse, bo
otstrap=True
[CV] n_estimators=4, min_samples_split=10, min_samples_leaf=20, ma
x_leaf_nodes=20, max_features=auto, max_depth=8, criterion=mse, bo
otstrap=True
[CV] n_estimators=2, min_samples_split=10, min_samples_leaf=40, ma
x_leaf_nodes=5, max_features=sqrt, max_depth=2, criterion=mse, boo
tstrap=True
[CV]  n_estimators=5, min_samples_split=20, min_samples_leaf=40, m
ax_leaf_nodes=20, max_features=auto, max_depth=6, criterion=mse, b
ootstrap=False, total=    9.8s
[CV] n_estimators=2, min_samples_split=10, min_samples_leaf=40, ma
x_leaf_nodes=5, max_features=sqrt, max_depth=2, criterion=mse, boo
tstrap=True
[CV]  n_estimators=5, min_samples_split=20, min_samples_leaf=40, m
ax_leaf_nodes=20, max_features=auto, max_depth=6, criterion=mse, b
ootstrap=False, total=   10.2s
[CV] n_estimators=2, min_samples_split=10, min_samples_leaf=40, ma
x_leaf_nodes=5, max_features=sqrt, max_depth=2, criterion=mse, boo
tstrap=True
[CV]  n_estimators=2, min_samples_split=40, min_samples_leaf=20, m
ax_leaf_nodes=20, max_features=auto, max_depth=2, criterion=mse, b
ootstrap=False, total=    2.6s
[CV]  n_estimators=3, min_samples_split=20, min_samples_leaf=20, m
ax_leaf_nodes=100, max_features=sqrt, max_depth=8, criterion=mse,
bootstrap=False, total=    1.3s
[CV] n_estimators=2, min_samples_split=10, min_samples_leaf=40, ma
x_leaf_nodes=5, max_features=sqrt, max_depth=2, criterion=mse, boo
tstrap=True
[CV]  n_estimators=2, min_samples_split=10, min_samples_leaf=40, m
ax_leaf_nodes=5, max_features=sqrt, max_depth=2, criterion=mse, bo
```

```
otstrap=True, total=   0.3s
[CV]  n_estimators=2, min_samples_split=10, min_samples_leaf=40, m
ax_leaf_nodes=5, max_features=sqrt, max_depth=2, criterion=mse, bo
otstrap=True, total=   0.3s
[CV] n_estimators=2, min_samples_split=10, min_samples_leaf=40, ma
x_leaf_nodes=5, max_features=sqrt, max_depth=2, criterion=mse, boo
tstrap=True
[CV]  n_estimators=3, min_samples_split=20, min_samples_leaf=20, m
ax_leaf_nodes=100, max_features=sqrt, max_depth=8, criterion=mse,
bootstrap=False, total=   1.5s
[CV]  n_estimators=3, min_samples_split=20, min_samples_leaf=20, m
ax_leaf_nodes=100, max_features=sqrt, max_depth=8, criterion=mse,
bootstrap=False, total=   1.4s
[CV]  n_estimators=2, min_samples_split=40, min_samples_leaf=20, m
ax_leaf_nodes=20, max_features=auto, max_depth=2, criterion=mse, b
ootstrap=False, total=   2.8s
[CV]  n_estimators=2, min_samples_split=40, min_samples_leaf=20, m
ax_leaf_nodes=20, max_features=auto, max_depth=2, criterion=mse, b
ootstrap=False, total=   2.7s
[CV] n_estimators=9, min_samples_split=40, min_samples_leaf=40, ma
x_leaf_nodes=100, max_features=auto, max_depth=2, criterion=mse, b
ootstrap=False
[CV]  n_estimators=2, min_samples_split=10, min_samples_leaf=40, m
ax_leaf_nodes=5, max_features=sqrt, max_depth=2, criterion=mse, bo
otstrap=True, total=   0.3s
[CV]  n_estimators=3, min_samples_split=20, min_samples_leaf=20, m
ax_leaf_nodes=100, max_features=sqrt, max_depth=8, criterion=mse,
bootstrap=False, total=   1.4s
[CV] n_estimators=9, min_samples_split=40, min_samples_leaf=40, ma
x_leaf_nodes=100, max_features=auto, max_depth=2, criterion=mse, b
ootstrap=False
[CV]  n_estimators=2, min_samples_split=40, min_samples_leaf=20, m
ax_leaf_nodes=20, max_features=auto, max_depth=2, criterion=mse, b
ootstrap=False, total=   2.7s
[CV]  n_estimators=2, min_samples_split=40, min_samples_leaf=20, m
ax_leaf_nodes=20, max_features=auto, max_depth=2, criterion=mse, b
ootstrap=False, total=   2.8s
[CV]  n_estimators=2, min_samples_split=10, min_samples_leaf=40, m
ax_leaf_nodes=5, max_features=sqrt, max_depth=2, criterion=mse, bo
otstrap=True, total=   0.3s
[CV]  n_estimators=2, min_samples_split=10, min_samples_leaf=40, m
ax_leaf_nodes=5, max_features=sqrt, max_depth=2, criterion=mse, bo
otstrap=True, total=   0.4s
[CV] n_estimators=9, min_samples_split=40, min_samples_leaf=40, ma
x_leaf_nodes=100, max_features=auto, max_depth=2, criterion=mse, b
ootstrap=False
[CV] n_estimators=9, min_samples_split=40, min_samples_leaf=40, ma
x_leaf_nodes=100, max_features=auto, max_depth=2, criterion=mse, b
ootstrap=False
[CV]  n_estimators=3, min_samples_split=20, min_samples_leaf=20, m
ax_leaf_nodes=100, max_features=sqrt, max_depth=8, criterion=mse,
bootstrap=False, total=   1.6s
[CV] n_estimators=9, min_samples_split=40, min_samples_leaf=40, ma
x_leaf_nodes=100, max_features=auto, max_depth=2, criterion=mse, b
```

```
ootstrap=False
[CV]  n_estimators=4, min_samples_split=10, min_samples_leaf=20, m
ax_leaf_nodes=20, max_features=auto, max_depth=6, criterion=mse, b
ootstrap=False, total=   7.2s
[CV] n_estimators=4, min_samples_split=20, min_samples_leaf=20, ma
x_leaf_nodes=5, max_features=auto, max_depth=2, criterion=mse, boo
tstrap=False
[CV] n_estimators=4, min_samples_split=20, min_samples_leaf=20, ma
x_leaf_nodes=5, max_features=auto, max_depth=2, criterion=mse, boo
tstrap=False
[CV]  n_estimators=8, min_samples_split=10, min_samples_leaf=40, m
ax_leaf_nodes=100, max_features=auto, max_depth=6, criterion=mse,
bootstrap=False, total=  19.9s
[CV] n_estimators=4, min_samples_split=20, min_samples_leaf=20, ma
x_leaf_nodes=5, max_features=auto, max_depth=2, criterion=mse, boo
tstrap=False
[CV] n_estimators=4, min_samples_split=20, min_samples_leaf=20, ma
x_leaf_nodes=5, max_features=auto, max_depth=2, criterion=mse, boo
tstrap=False
[CV]  n_estimators=4, min_samples_split=10, min_samples_leaf=20, m
ax_leaf_nodes=20, max_features=auto, max_depth=6, criterion=mse, b
ootstrap=False, total=   7.5s
[CV]  n_estimators=8, min_samples_split=10, min_samples_leaf=40, m
ax_leaf_nodes=100, max_features=auto, max_depth=6, criterion=mse,
bootstrap=False, total=  20.0s
[CV] n_estimators=4, min_samples_split=20, min_samples_leaf=20, ma
x_leaf_nodes=5, max_features=auto, max_depth=2, criterion=mse, boo
tstrap=False
[CV]  n_estimators=4, min_samples_split=10, min_samples_leaf=20, m
ax_leaf_nodes=20, max_features=auto, max_depth=6, criterion=mse, b
ootstrap=False, total=   7.4s
[CV]  n_estimators=8, min_samples_split=10, min_samples_leaf=40, m
ax_leaf_nodes=100, max_features=auto, max_depth=6, criterion=mse,
bootstrap=False, total=  19.8s
[CV] n_estimators=2, min_samples_split=20, min_samples_leaf=100, m
ax_leaf_nodes=20, max_features=sqrt, max_depth=8, criterion=mse, b
ootstrap=False
[CV]  n_estimators=4, min_samples_split=10, min_samples_leaf=20, m
ax_leaf_nodes=20, max_features=auto, max_depth=6, criterion=mse, b
ootstrap=False, total=   7.4s
[CV] n_estimators=2, min_samples_split=20, min_samples_leaf=100, m
ax_leaf_nodes=20, max_features=sqrt, max_depth=8, criterion=mse, b
ootstrap=False
[CV] n_estimators=2, min_samples_split=20, min_samples_leaf=100, m
ax_leaf_nodes=20, max_features=sqrt, max_depth=8, criterion=mse, b
ootstrap=False
[CV] n_estimators=2, min_samples_split=20, min_samples_leaf=100, m
ax_leaf_nodes=20, max_features=sqrt, max_depth=8, criterion=mse, b
ootstrap=False
[CV] n_estimators=2, min_samples_split=20, min_samples_leaf=100, m
ax_leaf_nodes=20, max_features=sqrt, max_depth=8, criterion=mse, b
ootstrap=False
[CV]  n_estimators=4, min_samples_split=10, min_samples_leaf=20, m
ax_leaf_nodes=20, max_features=auto, max_depth=6, criterion=mse, b
```

```
ootstrap=False, total=   8.2s
[CV] n_estimators=5, min_samples_split=40, min_samples_leaf=100, m
ax_leaf_nodes=20, max_features=auto, max_depth=6, criterion=mse, b
ootstrap=False
[CV] n_estimators=5, min_samples_split=40, min_samples_leaf=100, m
ax_leaf_nodes=20, max_features=auto, max_depth=6, criterion=mse, b
ootstrap=False
[CV]  n_estimators=2, min_samples_split=20, min_samples_leaf=100,
max_leaf_nodes=20, max_features=sqrt, max_depth=8, criterion=mse,
bootstrap=False, total=   0.7s
[CV]  n_estimators=2, min_samples_split=20, min_samples_leaf=100,
max_leaf_nodes=20, max_features=sqrt, max_depth=8, criterion=mse,
bootstrap=False, total=   0.6s
[CV] n_estimators=5, min_samples_split=40, min_samples_leaf=100, m
ax_leaf_nodes=20, max_features=auto, max_depth=6, criterion=mse, b
ootstrap=False
[CV] n_estimators=5, min_samples_split=40, min_samples_leaf=100, m
ax_leaf_nodes=20, max_features=auto, max_depth=6, criterion=mse, b
ootstrap=False
[CV]  n_estimators=2, min_samples_split=20, min_samples_leaf=100,
max_leaf_nodes=20, max_features=sqrt, max_depth=8, criterion=mse,
bootstrap=False, total=   0.6s
[CV] n_estimators=5, min_samples_split=40, min_samples_leaf=100, m
ax_leaf_nodes=20, max_features=auto, max_depth=6, criterion=mse, b
ootstrap=False
[CV]  n_estimators=2, min_samples_split=20, min_samples_leaf=100,
max_leaf_nodes=20, max_features=sqrt, max_depth=8, criterion=mse,
bootstrap=False, total=   0.8s
[CV]  n_estimators=2, min_samples_split=20, min_samples_leaf=100,
max_leaf_nodes=20, max_features=sqrt, max_depth=8, criterion=mse,
bootstrap=False, total=   0.6s
[CV] n_estimators=8, min_samples_split=20, min_samples_leaf=100, m
ax_leaf_nodes=20, max_features=auto, max_depth=6, criterion=mse, b
ootstrap=True
[CV] n_estimators=8, min_samples_split=20, min_samples_leaf=100, m
ax_leaf_nodes=20, max_features=auto, max_depth=6, criterion=mse, b
ootstrap=True
[CV] n_estimators=8, min_samples_split=20, min_samples_leaf=100, m
ax_leaf_nodes=20, max_features=auto, max_depth=6, criterion=mse, b
ootstrap=True
[CV] n_estimators=8, min_samples_split=20, min_samples_leaf=100, m
ax_leaf_nodes=20, max_features=auto, max_depth=6, criterion=mse, b
ootstrap=True
[CV]  n_estimators=8, min_samples_split=10, min_samples_leaf=40, m
ax_leaf_nodes=100, max_features=auto, max_depth=6, criterion=mse,
bootstrap=False, total=  21.4s
[CV] n_estimators=8, min_samples_split=20, min_samples_leaf=100, m
ax_leaf_nodes=20, max_features=auto, max_depth=6, criterion=mse, b
ootstrap=True
[CV] n_estimators=2, min_samples_split=20, min_samples_leaf=40, ma
x_leaf_nodes=100, max_features=sqrt, max_depth=6, criterion=mse, b
ootstrap=True
[CV] n_estimators=2, min_samples_split=20, min_samples_leaf=40, ma
x_leaf_nodes=100, max_features=sqrt, max_depth=6, criterion=mse, b
```

```
ootstrap=True
[CV] n_estimators=2, min_samples_split=20, min_samples_leaf=40, ma
x_leaf_nodes=100, max_features=sqrt, max_depth=6, criterion=mse, b
ootstrap=True
[CV] n_estimators=2, min_samples_split=20, min_samples_leaf=40, ma
x_leaf_nodes=100, max_features=sqrt, max_depth=6, criterion=mse, b
ootstrap=True
[CV] n_estimators=2, min_samples_split=20, min_samples_leaf=40, ma
x_leaf_nodes=100, max_features=sqrt, max_depth=6, criterion=mse, b
ootstrap=True
[CV] n_estimators=9, min_samples_split=20, min_samples_leaf=100, m
ax_leaf_nodes=100, max_features=sqrt, max_depth=8, criterion=mse,
bootstrap=True
[CV] n_estimators=9, min_samples_split=20, min_samples_leaf=100, m
ax_leaf_nodes=100, max_features=sqrt, max_depth=8, criterion=mse,
bootstrap=True
[CV]  n_estimators=2, min_samples_split=20, min_samples_leaf=40, m
ax_leaf_nodes=100, max_features=sqrt, max_depth=6, criterion=mse,
bootstrap=True, total=   0.7s
[CV]  n_estimators=2, min_samples_split=20, min_samples_leaf=40, m
ax_leaf_nodes=100, max_features=sqrt, max_depth=6, criterion=mse,
bootstrap=True, total=   0.6s
[CV] n_estimators=9, min_samples_split=20, min_samples_leaf=100, m
ax_leaf_nodes=100, max_features=sqrt, max_depth=8, criterion=mse,
bootstrap=True
[CV]  n_estimators=4, min_samples_split=10, min_samples_leaf=20, m
ax_leaf_nodes=20, max_features=auto, max_depth=8, criterion=mse, b
ootstrap=True, total=   4.7s
[CV]  n_estimators=8, min_samples_split=10, min_samples_leaf=40, m
ax_leaf_nodes=100, max_features=auto, max_depth=6, criterion=mse,
bootstrap=False, total=  22.6s
[CV] n_estimators=9, min_samples_split=20, min_samples_leaf=100, m
ax_leaf_nodes=100, max_features=sqrt, max_depth=8, criterion=mse,
bootstrap=True
[CV]  n_estimators=2, min_samples_split=20, min_samples_leaf=40, m
ax_leaf_nodes=100, max_features=sqrt, max_depth=6, criterion=mse,
bootstrap=True, total=   0.7s
[CV]  n_estimators=2, min_samples_split=20, min_samples_leaf=40, m
ax_leaf_nodes=100, max_features=sqrt, max_depth=6, criterion=mse,
bootstrap=True, total=   0.7s
[CV]  n_estimators=9, min_samples_split=10, min_samples_leaf=40, m
ax_leaf_nodes=20, max_features=auto, max_depth=6, criterion=mse, b
ootstrap=True, total=  11.5s
[CV] n_estimators=9, min_samples_split=20, min_samples_leaf=100, m
ax_leaf_nodes=100, max_features=sqrt, max_depth=8, criterion=mse,
bootstrap=True
[CV]  n_estimators=4, min_samples_split=10, min_samples_leaf=20, m
ax_leaf_nodes=20, max_features=auto, max_depth=8, criterion=mse, b
ootstrap=True, total=   5.2s
[CV] n_estimators=7, min_samples_split=40, min_samples_leaf=20, ma
x_leaf_nodes=100, max_features=sqrt, max_depth=8, criterion=mse, b
ootstrap=False
[CV]  n_estimators=9, min_samples_split=10, min_samples_leaf=40, m
ax_leaf_nodes=20, max_features=auto, max_depth=6, criterion=mse, b
```

```
ootstrap=True, total=  12.0s
[CV]  n_estimators=4, min_samples_split=10, min_samples_leaf=20, m
ax_leaf_nodes=20, max_features=auto, max_depth=8, criterion=mse, b
ootstrap=True, total=   5.1s
[CV]  n_estimators=4, min_samples_split=10, min_samples_leaf=20, m
ax_leaf_nodes=20, max_features=auto, max_depth=8, criterion=mse, b
ootstrap=True, total=   5.0s
[CV] n_estimators=7, min_samples_split=40, min_samples_leaf=20, ma
x_leaf_nodes=100, max_features=sqrt, max_depth=8, criterion=mse, b
ootstrap=False
[CV]  n_estimators=9, min_samples_split=10, min_samples_leaf=40, m
ax_leaf_nodes=20, max_features=auto, max_depth=6, criterion=mse, b
ootstrap=True, total=  11.6s
[CV]  n_estimators=9, min_samples_split=10, min_samples_leaf=40, m
ax_leaf_nodes=20, max_features=auto, max_depth=6, criterion=mse, b
ootstrap=True, total=  11.7s
[CV]  n_estimators=2, min_samples_split=20, min_samples_leaf=40, m
ax_leaf_nodes=100, max_features=sqrt, max_depth=6, criterion=mse,
bootstrap=True, total=   0.8s
[CV]  n_estimators=9, min_samples_split=10, min_samples_leaf=40, m
ax_leaf_nodes=20, max_features=auto, max_depth=6, criterion=mse, b
ootstrap=True, total=  12.0s
[CV] n_estimators=7, min_samples_split=40, min_samples_leaf=20, ma
x_leaf_nodes=100, max_features=sqrt, max_depth=8, criterion=mse, b
ootstrap=False
[CV] n_estimators=7, min_samples_split=40, min_samples_leaf=20, ma
x_leaf_nodes=100, max_features=sqrt, max_depth=8, criterion=mse, b
ootstrap=False
[CV] n_estimators=7, min_samples_split=40, min_samples_leaf=20, ma
x_leaf_nodes=100, max_features=sqrt, max_depth=8, criterion=mse, b
ootstrap=False
[CV] n_estimators=3, min_samples_split=20, min_samples_leaf=20, ma
x_leaf_nodes=5, max_features=sqrt, max_depth=2, criterion=mse, boo
tstrap=False
[CV]  n_estimators=4, min_samples_split=10, min_samples_leaf=20, m
ax_leaf_nodes=20, max_features=auto, max_depth=8, criterion=mse, b
ootstrap=True, total=   5.4s
[CV] n_estimators=3, min_samples_split=20, min_samples_leaf=20, ma
x_leaf_nodes=5, max_features=sqrt, max_depth=2, criterion=mse, boo
tstrap=False
[CV]  n_estimators=4, min_samples_split=40, min_samples_leaf=40, m
ax_leaf_nodes=20, max_features=auto, max_depth=8, criterion=mse, b
ootstrap=False, total=   7.3s
[CV]  n_estimators=4, min_samples_split=40, min_samples_leaf=40, m
ax_leaf_nodes=20, max_features=auto, max_depth=8, criterion=mse, b
ootstrap=False, total=   7.0s
[CV] n_estimators=3, min_samples_split=20, min_samples_leaf=20, ma
x_leaf_nodes=5, max_features=sqrt, max_depth=2, criterion=mse, boo
tstrap=False
[CV] n_estimators=3, min_samples_split=20, min_samples_leaf=20, ma
x_leaf_nodes=5, max_features=sqrt, max_depth=2, criterion=mse, boo
tstrap=False
[CV] n_estimators=3, min_samples_split=20, min_samples_leaf=20, ma
x_leaf_nodes=5, max_features=sqrt, max_depth=2, criterion=mse, boo
```

```
tstrap=False
[CV]  n_estimators=3, min_samples_split=20, min_samples_leaf=20, m
ax_leaf_nodes=5, max_features=sqrt, max_depth=2, criterion=mse, bo
otstrap=False, total=   0.5s
[CV] n_estimators=2, min_samples_split=10, min_samples_leaf=100, m
ax_leaf_nodes=5, max_features=auto, max_depth=2, criterion=mse, bo
otstrap=True
[CV]  n_estimators=4, min_samples_split=40, min_samples_leaf=40, m
ax_leaf_nodes=20, max_features=auto, max_depth=8, criterion=mse, b
ootstrap=False, total=   7.2s
[CV] n_estimators=2, min_samples_split=10, min_samples_leaf=100, m
ax_leaf_nodes=5, max_features=auto, max_depth=2, criterion=mse, bo
otstrap=True
[CV]  n_estimators=3, min_samples_split=20, min_samples_leaf=20, m
ax_leaf_nodes=5, max_features=sqrt, max_depth=2, criterion=mse, bo
otstrap=False, total=   0.5s
[CV] n_estimators=2, min_samples_split=10, min_samples_leaf=100, m
ax_leaf_nodes=5, max_features=auto, max_depth=2, criterion=mse, bo
otstrap=True
[CV]  n_estimators=4, min_samples_split=40, min_samples_leaf=40, m
ax_leaf_nodes=20, max_features=auto, max_depth=8, criterion=mse, b
ootstrap=False, total=   7.8s
[CV]  n_estimators=3, min_samples_split=20, min_samples_leaf=20, m
ax_leaf_nodes=5, max_features=sqrt, max_depth=2, criterion=mse, bo
otstrap=False, total=   0.6s
[CV]  n_estimators=4, min_samples_split=40, min_samples_leaf=40, m
ax_leaf_nodes=20, max_features=auto, max_depth=8, criterion=mse, b
ootstrap=False, total=   7.6s
[CV] n_estimators=2, min_samples_split=10, min_samples_leaf=100, m
ax_leaf_nodes=5, max_features=auto, max_depth=2, criterion=mse, bo
otstrap=True
[CV]  n_estimators=3, min_samples_split=20, min_samples_leaf=20, m
ax_leaf_nodes=5, max_features=sqrt, max_depth=2, criterion=mse, bo
otstrap=False, total=   0.5s
[CV] n_estimators=2, min_samples_split=10, min_samples_leaf=100, m
ax_leaf_nodes=5, max_features=auto, max_depth=2, criterion=mse, bo
otstrap=True
[CV]  n_estimators=3, min_samples_split=20, min_samples_leaf=20, m
ax_leaf_nodes=5, max_features=sqrt, max_depth=2, criterion=mse, bo
otstrap=False, total=   0.6s
[CV] n_estimators=6, min_samples_split=40, min_samples_leaf=100, m
ax_leaf_nodes=5, max_features=sqrt, max_depth=2, criterion=mse, bo
otstrap=True
[CV] n_estimators=6, min_samples_split=40, min_samples_leaf=100, m
ax_leaf_nodes=5, max_features=sqrt, max_depth=2, criterion=mse, bo
otstrap=True
[CV]  n_estimators=4, min_samples_split=20, min_samples_leaf=20, m
ax_leaf_nodes=5, max_features=auto, max_depth=2, criterion=mse, bo
otstrap=False, total=   5.4s
[CV] n_estimators=6, min_samples_split=40, min_samples_leaf=100, m
ax_leaf_nodes=5, max_features=sqrt, max_depth=2, criterion=mse, bo
otstrap=True
[CV]  n_estimators=4, min_samples_split=20, min_samples_leaf=20, m
ax_leaf_nodes=5, max_features=auto, max_depth=2, criterion=mse, bo
```

```
otstrap=False, total=   5.4s
[CV] n_estimators=6, min_samples_split=40, min_samples_leaf=100, m
ax_leaf_nodes=5, max_features=sqrt, max_depth=2, criterion=mse, bo
otstrap=True
[CV] n_estimators=6, min_samples_split=40, min_samples_leaf=100, m
ax_leaf_nodes=5, max_features=sqrt, max_depth=2, criterion=mse, bo
otstrap=True
[CV]  n_estimators=4, min_samples_split=20, min_samples_leaf=20, m
ax_leaf_nodes=5, max_features=auto, max_depth=2, criterion=mse, bo
otstrap=False, total=   5.5s
[CV] n_estimators=2, min_samples_split=40, min_samples_leaf=20, ma
x_leaf_nodes=5, max_features=auto, max_depth=6, criterion=mse, boo
tstrap=False
[CV] n_estimators=2, min_samples_split=40, min_samples_leaf=20, ma
x_leaf_nodes=5, max_features=auto, max_depth=6, criterion=mse, boo
tstrap=False
[CV]  n_estimators=4, min_samples_split=20, min_samples_leaf=20, m
ax_leaf_nodes=5, max_features=auto, max_depth=2, criterion=mse, bo
otstrap=False, total=   5.6s
[CV] n_estimators=2, min_samples_split=40, min_samples_leaf=20, ma
x_leaf_nodes=5, max_features=auto, max_depth=6, criterion=mse, boo
tstrap=False
[CV]  n_estimators=6, min_samples_split=40, min_samples_leaf=100,
max_leaf_nodes=5, max_features=sqrt, max_depth=2, criterion=mse, b
ootstrap=True, total=   0.8s
[CV]  n_estimators=4, min_samples_split=20, min_samples_leaf=20, m
ax_leaf_nodes=5, max_features=auto, max_depth=2, criterion=mse, bo
otstrap=False, total=   5.7s
[CV] n_estimators=2, min_samples_split=40, min_samples_leaf=20, ma
x_leaf_nodes=5, max_features=auto, max_depth=6, criterion=mse, boo
tstrap=False
[CV]  n_estimators=6, min_samples_split=40, min_samples_leaf=100,
max_leaf_nodes=5, max_features=sqrt, max_depth=2, criterion=mse, b
ootstrap=True, total=   0.9s
[CV] n_estimators=2, min_samples_split=40, min_samples_leaf=20, ma
x_leaf_nodes=5, max_features=auto, max_depth=6, criterion=mse, boo
tstrap=False
[CV]  n_estimators=9, min_samples_split=20, min_samples_leaf=100,
max_leaf_nodes=100, max_features=sqrt, max_depth=8, criterion=mse,
bootstrap=True, total=   3.2s
[CV] n_estimators=2, min_samples_split=10, min_samples_leaf=20, ma
x_leaf_nodes=100, max_features=auto, max_depth=6, criterion=mse, b
ootstrap=True
[CV]  n_estimators=6, min_samples_split=40, min_samples_leaf=100,
max_leaf_nodes=5, max_features=sqrt, max_depth=2, criterion=mse, b
ootstrap=True, total=   0.9s
[CV] n_estimators=2, min_samples_split=10, min_samples_leaf=20, ma
x_leaf_nodes=100, max_features=auto, max_depth=6, criterion=mse, b
ootstrap=True
[CV]  n_estimators=9, min_samples_split=20, min_samples_leaf=100,
max_leaf_nodes=100, max_features=sqrt, max_depth=8, criterion=mse,
bootstrap=True, total=   3.4s
[CV]  n_estimators=9, min_samples_split=20, min_samples_leaf=100,
max_leaf_nodes=100, max_features=sqrt, max_depth=8, criterion=mse,
```

```
bootstrap=True, total=   3.0s
[CV]  n_estimators=6, min_samples_split=40, min_samples_leaf=100,
max_leaf_nodes=5, max_features=sqrt, max_depth=2, criterion=mse, b
ootstrap=True, total=   0.9s
[CV] n_estimators=2, min_samples_split=10, min_samples_leaf=20, ma
x_leaf_nodes=100, max_features=auto, max_depth=6, criterion=mse, b
ootstrap=True
[CV]  n_estimators=2, min_samples_split=10, min_samples_leaf=100,
max_leaf_nodes=5, max_features=auto, max_depth=2, criterion=mse, b
ootstrap=True, total=   1.9s
[CV]  n_estimators=7, min_samples_split=40, min_samples_leaf=20, m
ax_leaf_nodes=100, max_features=sqrt, max_depth=8, criterion=mse,
bootstrap=False, total=   2.7s
[CV]  n_estimators=6, min_samples_split=40, min_samples_leaf=100,
max_leaf_nodes=5, max_features=sqrt, max_depth=2, criterion=mse, b
ootstrap=True, total=   0.9s
[CV] n_estimators=2, min_samples_split=10, min_samples_leaf=20, ma
x_leaf_nodes=100, max_features=auto, max_depth=6, criterion=mse, b
ootstrap=True
[CV]  n_estimators=7, min_samples_split=40, min_samples_leaf=20, m
ax_leaf_nodes=100, max_features=sqrt, max_depth=8, criterion=mse,
bootstrap=False, total=   3.3s
[CV]  n_estimators=9, min_samples_split=20, min_samples_leaf=100,
max_leaf_nodes=100, max_features=sqrt, max_depth=8, criterion=mse,
bootstrap=True, total=   3.5s
[CV]  n_estimators=7, min_samples_split=40, min_samples_leaf=20, m
ax_leaf_nodes=100, max_features=sqrt, max_depth=8, criterion=mse,
bootstrap=False, total=   3.1s
[CV] n_estimators=2, min_samples_split=10, min_samples_leaf=20, ma
x_leaf_nodes=100, max_features=auto, max_depth=6, criterion=mse, b
ootstrap=True
[CV]  n_estimators=9, min_samples_split=20, min_samples_leaf=100,
max_leaf_nodes=100, max_features=sqrt, max_depth=8, criterion=mse,
bootstrap=True, total=   3.4s
[CV]  n_estimators=2, min_samples_split=10, min_samples_leaf=100,
max_leaf_nodes=5, max_features=auto, max_depth=2, criterion=mse, b
ootstrap=True, total=   2.3s
[CV]  n_estimators=2, min_samples_split=10, min_samples_leaf=100,
max_leaf_nodes=5, max_features=auto, max_depth=2, criterion=mse, b
ootstrap=True, total=   1.9s
[CV]  n_estimators=2, min_samples_split=10, min_samples_leaf=100,
max_leaf_nodes=5, max_features=auto, max_depth=2, criterion=mse, b
ootstrap=True, total=   1.8s
[CV]  n_estimators=7, min_samples_split=40, min_samples_leaf=20, m
ax_leaf_nodes=100, max_features=sqrt, max_depth=8, criterion=mse,
bootstrap=False, total=   3.0s
[CV] n_estimators=7, min_samples_split=20, min_samples_leaf=100, m
ax_leaf_nodes=100, max_features=sqrt, max_depth=6, criterion=mse,
bootstrap=True
[CV]  n_estimators=2, min_samples_split=10, min_samples_leaf=100,
max_leaf_nodes=5, max_features=auto, max_depth=2, criterion=mse, b
ootstrap=True, total=   2.2s
[CV] n_estimators=7, min_samples_split=20, min_samples_leaf=100, m
ax_leaf_nodes=100, max_features=sqrt, max_depth=6, criterion=mse,
```

```
bootstrap=True
[CV]  n_estimators=7, min_samples_split=40, min_samples_leaf=20, m
ax_leaf_nodes=100, max_features=sqrt, max_depth=8, criterion=mse,
bootstrap=False, total=   3.3s
[CV] n_estimators=7, min_samples_split=20, min_samples_leaf=100, m
ax_leaf_nodes=100, max_features=sqrt, max_depth=6, criterion=mse,
bootstrap=True
[CV] n_estimators=7, min_samples_split=20, min_samples_leaf=100, m
ax_leaf_nodes=100, max_features=sqrt, max_depth=6, criterion=mse,
bootstrap=True
[CV] n_estimators=7, min_samples_split=20, min_samples_leaf=100, m
ax_leaf_nodes=100, max_features=sqrt, max_depth=6, criterion=mse,
bootstrap=True
[CV] n_estimators=9, min_samples_split=40, min_samples_leaf=100, m
ax_leaf_nodes=20, max_features=auto, max_depth=2, criterion=mse, b
ootstrap=True
[CV] n_estimators=9, min_samples_split=40, min_samples_leaf=100, m
ax_leaf_nodes=20, max_features=auto, max_depth=2, criterion=mse, b
ootstrap=True
[CV] n_estimators=9, min_samples_split=40, min_samples_leaf=100, m
ax_leaf_nodes=20, max_features=auto, max_depth=2, criterion=mse, b
ootstrap=True
[CV] n_estimators=9, min_samples_split=40, min_samples_leaf=100, m
ax_leaf_nodes=20, max_features=auto, max_depth=2, criterion=mse, b
ootstrap=True
[CV] n_estimators=9, min_samples_split=40, min_samples_leaf=100, m
ax_leaf_nodes=20, max_features=auto, max_depth=2, criterion=mse, b
ootstrap=True
[CV] n_estimators=3, min_samples_split=40, min_samples_leaf=40, ma
x_leaf_nodes=20, max_features=auto, max_depth=8, criterion=mse, bo
otstrap=True
[CV] n_estimators=3, min_samples_split=40, min_samples_leaf=40, ma
x_leaf_nodes=20, max_features=auto, max_depth=8, criterion=mse, bo
otstrap=True
[CV] n_estimators=3, min_samples_split=40, min_samples_leaf=40, ma
x_leaf_nodes=20, max_features=auto, max_depth=8, criterion=mse, bo
otstrap=True
[CV]  n_estimators=2, min_samples_split=40, min_samples_leaf=20, m
ax_leaf_nodes=5, max_features=auto, max_depth=6, criterion=mse, bo
otstrap=False, total=   2.6s
[CV] n_estimators=3, min_samples_split=40, min_samples_leaf=40, ma
x_leaf_nodes=20, max_features=auto, max_depth=8, criterion=mse, bo
otstrap=True
[CV] n_estimators=3, min_samples_split=40, min_samples_leaf=40, ma
x_leaf_nodes=20, max_features=auto, max_depth=8, criterion=mse, bo
otstrap=True
[CV]  n_estimators=2, min_samples_split=40, min_samples_leaf=20, m
ax_leaf_nodes=5, max_features=auto, max_depth=6, criterion=mse, bo
otstrap=False, total=   2.9s
[CV]  n_estimators=2, min_samples_split=40, min_samples_leaf=20, m
ax_leaf_nodes=5, max_features=auto, max_depth=6, criterion=mse, bo
otstrap=False, total=   2.6s
[CV] n_estimators=7, min_samples_split=20, min_samples_leaf=20, ma
x_leaf_nodes=5, max_features=auto, max_depth=2, criterion=mse, boo
```

```
tstrap=True
[CV]  n_estimators=2, min_samples_split=40, min_samples_leaf=20, m
ax_leaf_nodes=5, max_features=auto, max_depth=6, criterion=mse, bo
otstrap=False, total=   2.8s
[CV] n_estimators=7, min_samples_split=20, min_samples_leaf=20, ma
x_leaf_nodes=5, max_features=auto, max_depth=2, criterion=mse, boo
tstrap=True
[CV]  n_estimators=7, min_samples_split=20, min_samples_leaf=100,
max_leaf_nodes=100, max_features=sqrt, max_depth=6, criterion=mse,
bootstrap=True, total=   1.9s
[CV] n_estimators=7, min_samples_split=20, min_samples_leaf=20, ma
x_leaf_nodes=5, max_features=auto, max_depth=2, criterion=mse, boo
tstrap=True
[CV] n_estimators=7, min_samples_split=20, min_samples_leaf=20, ma
x_leaf_nodes=5, max_features=auto, max_depth=2, criterion=mse, boo
tstrap=True
[CV]  n_estimators=2, min_samples_split=40, min_samples_leaf=20, m
ax_leaf_nodes=5, max_features=auto, max_depth=6, criterion=mse, bo
otstrap=False, total=   2.9s
[CV] n_estimators=7, min_samples_split=20, min_samples_leaf=20, ma
x_leaf_nodes=5, max_features=auto, max_depth=2, criterion=mse, boo
tstrap=True
[CV]  n_estimators=7, min_samples_split=20, min_samples_leaf=100,
max_leaf_nodes=100, max_features=sqrt, max_depth=6, criterion=mse,
bootstrap=True, total=   2.1s
[CV] n_estimators=4, min_samples_split=10, min_samples_leaf=20, ma
x_leaf_nodes=20, max_features=sqrt, max_depth=2, criterion=mse, bo
otstrap=True
[CV] n_estimators=4, min_samples_split=10, min_samples_leaf=20, ma
x_leaf_nodes=20, max_features=sqrt, max_depth=2, criterion=mse, bo
otstrap=True
[CV]  n_estimators=7, min_samples_split=20, min_samples_leaf=100,
max_leaf_nodes=100, max_features=sqrt, max_depth=6, criterion=mse,
bootstrap=True, total=   2.3s
[CV]  n_estimators=7, min_samples_split=20, min_samples_leaf=100,
max_leaf_nodes=100, max_features=sqrt, max_depth=6, criterion=mse,
bootstrap=True, total=   2.2s
[CV] n_estimators=4, min_samples_split=10, min_samples_leaf=20, ma
x_leaf_nodes=20, max_features=sqrt, max_depth=2, criterion=mse, bo
otstrap=True
[CV] n_estimators=4, min_samples_split=10, min_samples_leaf=20, ma
x_leaf_nodes=20, max_features=sqrt, max_depth=2, criterion=mse, bo
otstrap=True
[CV]  n_estimators=7, min_samples_split=20, min_samples_leaf=100,
max_leaf_nodes=100, max_features=sqrt, max_depth=6, criterion=mse,
bootstrap=True, total=   2.3s
[CV] n_estimators=4, min_samples_split=10, min_samples_leaf=20, ma
x_leaf_nodes=20, max_features=sqrt, max_depth=2, criterion=mse, bo
otstrap=True
[CV] n_estimators=8, min_samples_split=20, min_samples_leaf=40, ma
x_leaf_nodes=100, max_features=auto, max_depth=2, criterion=mse, b
ootstrap=False
[CV] n_estimators=8, min_samples_split=20, min_samples_leaf=40, ma
x_leaf_nodes=100, max_features=auto, max_depth=2, criterion=mse, b
```

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ootstrap=False
[CV]  n_estimators=4, min_samples_split=10, min_samples_leaf=20, m
ax_leaf_nodes=20, max_features=sqrt, max_depth=2, criterion=mse, b
ootstrap=True, total=   0.7s
[CV] n_estimators=8, min_samples_split=20, min_samples_leaf=40, ma
x_leaf_nodes=100, max_features=auto, max_depth=2, criterion=mse, b
ootstrap=False
[CV]  n_estimators=4, min_samples_split=10, min_samples_leaf=20, m
ax_leaf_nodes=20, max_features=sqrt, max_depth=2, criterion=mse, b
ootstrap=True, total=   0.7s
[CV] n_estimators=8, min_samples_split=20, min_samples_leaf=40, ma
x_leaf_nodes=100, max_features=auto, max_depth=2, criterion=mse, b
ootstrap=False
[CV]  n_estimators=9, min_samples_split=40, min_samples_leaf=40, m
ax_leaf_nodes=100, max_features=auto, max_depth=2, criterion=mse,
bootstrap=False, total=   11.1s
[CV]  n_estimators=4, min_samples_split=10, min_samples_leaf=20, m
ax_leaf_nodes=20, max_features=sqrt, max_depth=2, criterion=mse, b
ootstrap=True, total=   0.7s
[CV] n_estimators=8, min_samples_split=20, min_samples_leaf=40, ma
x_leaf_nodes=100, max_features=auto, max_depth=2, criterion=mse, b
ootstrap=False
[CV]  n_estimators=2, min_samples_split=10, min_samples_leaf=20, m
ax_leaf_nodes=100, max_features=auto, max_depth=6, criterion=mse,
bootstrap=True, total=   4.1s
[CV]  n_estimators=4, min_samples_split=10, min_samples_leaf=20, m
ax_leaf_nodes=20, max_features=sqrt, max_depth=2, criterion=mse, b
ootstrap=True, total=   0.7s
[CV] n_estimators=8, min_samples_split=20, min_samples_leaf=100, m
ax_leaf_nodes=5, max_features=sqrt, max_depth=2, criterion=mse, bo
otstrap=False
[CV]  n_estimators=4, min_samples_split=10, min_samples_leaf=20, m
ax_leaf_nodes=20, max_features=sqrt, max_depth=2, criterion=mse, b
ootstrap=True, total=   0.6s
[CV]  n_estimators=5, min_samples_split=40, min_samples_leaf=100,
max_leaf_nodes=20, max_features=auto, max_depth=6, criterion=mse,
bootstrap=False, total=   9.4s
[CV] n_estimators=8, min_samples_split=20, min_samples_leaf=100, m
ax_leaf_nodes=5, max_features=sqrt, max_depth=2, criterion=mse, bo
otstrap=False
[CV]  n_estimators=2, min_samples_split=10, min_samples_leaf=20, m
ax_leaf_nodes=100, max_features=auto, max_depth=6, criterion=mse,
bootstrap=True, total=   4.3s
[CV]  n_estimators=5, min_samples_split=40, min_samples_leaf=100,
max_leaf_nodes=20, max_features=auto, max_depth=6, criterion=mse,
bootstrap=False, total=   9.7s
[CV]  n_estimators=2, min_samples_split=10, min_samples_leaf=20, m
ax_leaf_nodes=100, max_features=auto, max_depth=6, criterion=mse,
bootstrap=True, total=   4.1s
[CV] n_estimators=8, min_samples_split=20, min_samples_leaf=100, m
ax_leaf_nodes=5, max_features=sqrt, max_depth=2, criterion=mse, bo
otstrap=False
[CV] n_estimators=8, min_samples_split=20, min_samples_leaf=100, m
ax_leaf_nodes=5, max_features=sqrt, max_depth=2, criterion=mse, bo
```

```
otstrap=False
[CV]  n_estimators=9, min_samples_split=40, min_samples_leaf=40, m
ax_leaf_nodes=100, max_features=auto, max_depth=2, criterion=mse,
bootstrap=False, total=   11.3s
[CV]  n_estimators=2, min_samples_split=10, min_samples_leaf=20, m
ax_leaf_nodes=100, max_features=auto, max_depth=6, criterion=mse,
bootstrap=True, total=    4.3s
[CV]  n_estimators=9, min_samples_split=40, min_samples_leaf=40, m
ax_leaf_nodes=100, max_features=auto, max_depth=2, criterion=mse,
bootstrap=False, total=   11.6s
[CV] n_estimators=8, min_samples_split=20, min_samples_leaf=100, m
ax_leaf_nodes=5, max_features=sqrt, max_depth=2, criterion=mse, bo
otstrap=False
[CV] n_estimators=5, min_samples_split=20, min_samples_leaf=100, m
ax_leaf_nodes=20, max_features=auto, max_depth=8, criterion=mse, b
ootstrap=False
[CV]  n_estimators=5, min_samples_split=40, min_samples_leaf=100,
max_leaf_nodes=20, max_features=auto, max_depth=6, criterion=mse,
bootstrap=False, total=    9.6s
[CV] n_estimators=5, min_samples_split=20, min_samples_leaf=100, m
ax_leaf_nodes=20, max_features=auto, max_depth=8, criterion=mse, b
ootstrap=False
[CV]  n_estimators=5, min_samples_split=40, min_samples_leaf=100,
max_leaf_nodes=20, max_features=auto, max_depth=6, criterion=mse,
bootstrap=False, total=   10.0s
[CV] n_estimators=5, min_samples_split=20, min_samples_leaf=100, m
ax_leaf_nodes=20, max_features=auto, max_depth=8, criterion=mse, b
ootstrap=False
[CV]  n_estimators=2, min_samples_split=10, min_samples_leaf=20, m
ax_leaf_nodes=100, max_features=auto, max_depth=6, criterion=mse,
bootstrap=True, total=    4.6s
[CV] n_estimators=5, min_samples_split=20, min_samples_leaf=100, m
ax_leaf_nodes=20, max_features=auto, max_depth=8, criterion=mse, b
ootstrap=False
[CV]  n_estimators=9, min_samples_split=40, min_samples_leaf=40, m
ax_leaf_nodes=100, max_features=auto, max_depth=2, criterion=mse,
bootstrap=False, total=   11.7s
[CV]  n_estimators=5, min_samples_split=40, min_samples_leaf=100,
max_leaf_nodes=20, max_features=auto, max_depth=6, criterion=mse,
bootstrap=False, total=   10.1s
[CV]  n_estimators=9, min_samples_split=40, min_samples_leaf=40, m
ax_leaf_nodes=100, max_features=auto, max_depth=2, criterion=mse,
bootstrap=False, total=   12.0s
[CV] n_estimators=5, min_samples_split=20, min_samples_leaf=100, m
ax_leaf_nodes=20, max_features=auto, max_depth=8, criterion=mse, b
ootstrap=False
[CV] n_estimators=6, min_samples_split=10, min_samples_leaf=40, ma
x_leaf_nodes=5, max_features=auto, max_depth=8, criterion=mse, boo
tstrap=True
[CV] n_estimators=6, min_samples_split=10, min_samples_leaf=40, ma
x_leaf_nodes=5, max_features=auto, max_depth=8, criterion=mse, boo
tstrap=True
[CV]  n_estimators=8, min_samples_split=20, min_samples_leaf=100,
max_leaf_nodes=5, max_features=sqrt, max_depth=2, criterion=mse, b
```

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ootstrap=False, total=   1.3s
[CV] n_estimators=6, min_samples_split=10, min_samples_leaf=40, ma
x_leaf_nodes=5, max_features=auto, max_depth=8, criterion=mse, boo
tstrap=True
[CV] n_estimators=6, min_samples_split=10, min_samples_leaf=40, ma
x_leaf_nodes=5, max_features=auto, max_depth=8, criterion=mse, boo
tstrap=True
[CV] n_estimators=6, min_samples_split=10, min_samples_leaf=40, ma
x_leaf_nodes=5, max_features=auto, max_depth=8, criterion=mse, boo
tstrap=True
[CV]  n_estimators=8, min_samples_split=20, min_samples_leaf=100,
max_leaf_nodes=5, max_features=sqrt, max_depth=2, criterion=mse, b
ootstrap=False, total=   1.5s
[CV] n_estimators=3, min_samples_split=10, min_samples_leaf=40, ma
x_leaf_nodes=5, max_features=sqrt, max_depth=8, criterion=mse, boo
tstrap=True
[CV]  n_estimators=8, min_samples_split=20, min_samples_leaf=100,
max_leaf_nodes=5, max_features=sqrt, max_depth=2, criterion=mse, b
ootstrap=False, total=   1.6s
[CV] n_estimators=3, min_samples_split=10, min_samples_leaf=40, ma
x_leaf_nodes=5, max_features=sqrt, max_depth=8, criterion=mse, boo
tstrap=True
[CV]  n_estimators=3, min_samples_split=40, min_samples_leaf=40, m
ax_leaf_nodes=20, max_features=auto, max_depth=8, criterion=mse, b
ootstrap=True, total=   4.3s
[CV]  n_estimators=8, min_samples_split=20, min_samples_leaf=100,
max_leaf_nodes=5, max_features=sqrt, max_depth=2, criterion=mse, b
ootstrap=False, total=   1.5s
[CV]  n_estimators=3, min_samples_split=40, min_samples_leaf=40, m
ax_leaf_nodes=20, max_features=auto, max_depth=8, criterion=mse, b
ootstrap=True, total=   4.1s
[CV] n_estimators=3, min_samples_split=10, min_samples_leaf=40, ma
x_leaf_nodes=5, max_features=sqrt, max_depth=8, criterion=mse, boo
tstrap=True
[CV] n_estimators=3, min_samples_split=10, min_samples_leaf=40, ma
x_leaf_nodes=5, max_features=sqrt, max_depth=8, criterion=mse, boo
tstrap=True
[CV]  n_estimators=8, min_samples_split=20, min_samples_leaf=100,
max_leaf_nodes=20, max_features=auto, max_depth=6, criterion=mse,
bootstrap=True, total=  11.1s
[CV]  n_estimators=3, min_samples_split=40, min_samples_leaf=40, m
ax_leaf_nodes=20, max_features=auto, max_depth=8, criterion=mse, b
ootstrap=True, total=   4.4s
[CV]  n_estimators=8, min_samples_split=20, min_samples_leaf=100,
max_leaf_nodes=5, max_features=sqrt, max_depth=2, criterion=mse, b
ootstrap=False, total=   1.7s
[CV] n_estimators=3, min_samples_split=10, min_samples_leaf=40, ma
x_leaf_nodes=5, max_features=sqrt, max_depth=8, criterion=mse, boo
tstrap=True
[CV]  n_estimators=9, min_samples_split=40, min_samples_leaf=20, m
ax_leaf_nodes=100, max_features=auto, max_depth=8, criterion=mse,
bootstrap=True, total=  17.7s
[CV]  n_estimators=3, min_samples_split=10, min_samples_leaf=40, m
ax_leaf_nodes=5, max_features=sqrt, max_depth=8, criterion=mse, bo
```

```
otstrap=True, total=   0.4s
[CV]  n_estimators=8, min_samples_split=20, min_samples_leaf=100,
max_leaf_nodes=20, max_features=auto, max_depth=6, criterion=mse,
bootstrap=True, total=  11.1s
[CV]  n_estimators=8, min_samples_split=20, min_samples_leaf=100,
max_leaf_nodes=20, max_features=auto, max_depth=6, criterion=mse,
bootstrap=True, total=  11.1s
[CV] n_estimators=8, min_samples_split=40, min_samples_leaf=100, m
ax_leaf_nodes=20, max_features=sqrt, max_depth=6, criterion=mse, b
ootstrap=False
[CV]  n_estimators=3, min_samples_split=40, min_samples_leaf=40, m
ax_leaf_nodes=20, max_features=auto, max_depth=8, criterion=mse, b
ootstrap=True, total=   4.4s
[CV]  n_estimators=8, min_samples_split=20, min_samples_leaf=100,
max_leaf_nodes=20, max_features=auto, max_depth=6, criterion=mse,
bootstrap=True, total=  11.1s
[CV] n_estimators=8, min_samples_split=40, min_samples_leaf=100, m
ax_leaf_nodes=20, max_features=sqrt, max_depth=6, criterion=mse, b
ootstrap=False
[CV]  n_estimators=3, min_samples_split=40, min_samples_leaf=40, m
ax_leaf_nodes=20, max_features=auto, max_depth=8, criterion=mse, b
ootstrap=True, total=   4.3s
[CV]  n_estimators=3, min_samples_split=10, min_samples_leaf=40, m
ax_leaf_nodes=5, max_features=sqrt, max_depth=8, criterion=mse, bo
otstrap=True, total=   0.6s
[CV] n_estimators=8, min_samples_split=40, min_samples_leaf=100, m
ax_leaf_nodes=20, max_features=sqrt, max_depth=6, criterion=mse, b
ootstrap=False
[CV]  n_estimators=3, min_samples_split=10, min_samples_leaf=40, m
ax_leaf_nodes=5, max_features=sqrt, max_depth=8, criterion=mse, bo
otstrap=True, total=   0.4s
[CV]  n_estimators=3, min_samples_split=10, min_samples_leaf=40, m
ax_leaf_nodes=5, max_features=sqrt, max_depth=8, criterion=mse, bo
otstrap=True, total=   0.5s
[CV]  n_estimators=9, min_samples_split=40, min_samples_leaf=20, m
ax_leaf_nodes=100, max_features=auto, max_depth=8, criterion=mse,
bootstrap=True, total=  18.0s
[CV] n_estimators=8, min_samples_split=40, min_samples_leaf=100, m
ax_leaf_nodes=20, max_features=sqrt, max_depth=6, criterion=mse, b
ootstrap=False
[CV] n_estimators=8, min_samples_split=40, min_samples_leaf=100, m
ax_leaf_nodes=20, max_features=sqrt, max_depth=6, criterion=mse, b
ootstrap=False
[CV]  n_estimators=3, min_samples_split=10, min_samples_leaf=40, m
ax_leaf_nodes=5, max_features=sqrt, max_depth=8, criterion=mse, bo
otstrap=True, total=   0.5s
[CV] n_estimators=8, min_samples_split=20, min_samples_leaf=100, m
ax_leaf_nodes=20, max_features=sqrt, max_depth=6, criterion=mse, b
ootstrap=True
[CV] n_estimators=8, min_samples_split=20, min_samples_leaf=100, m
ax_leaf_nodes=20, max_features=sqrt, max_depth=6, criterion=mse, b
ootstrap=True
[CV]  n_estimators=8, min_samples_split=20, min_samples_leaf=100,
max_leaf_nodes=20, max_features=auto, max_depth=6, criterion=mse,
```

```
bootstrap=True, total=  11.6s
[CV] n_estimators=8, min_samples_split=20, min_samples_leaf=100, m
ax_leaf_nodes=20, max_features=sqrt, max_depth=6, criterion=mse, b
ootstrap=True
[CV]  n_estimators=9, min_samples_split=40, min_samples_leaf=20, m
ax_leaf_nodes=100, max_features=auto, max_depth=8, criterion=mse,
bootstrap=True, total=  18.8s
[CV] n_estimators=8, min_samples_split=20, min_samples_leaf=100, m
ax_leaf_nodes=20, max_features=sqrt, max_depth=6, criterion=mse, b
ootstrap=True
[CV] n_estimators=8, min_samples_split=20, min_samples_leaf=100, m
ax_leaf_nodes=20, max_features=sqrt, max_depth=6, criterion=mse, b
ootstrap=True
[CV] n_estimators=8, min_samples_split=40, min_samples_leaf=100, m
ax_leaf_nodes=5, max_features=auto, max_depth=6, criterion=mse, bo
otstrap=False
[CV]  n_estimators=8, min_samples_split=10, min_samples_leaf=100,
max_leaf_nodes=100, max_features=auto, max_depth=6, criterion=mse,
bootstrap=False, total=  23.2s
[CV] n_estimators=8, min_samples_split=40, min_samples_leaf=100, m
ax_leaf_nodes=5, max_features=auto, max_depth=6, criterion=mse, bo
otstrap=False
[CV]  n_estimators=8, min_samples_split=10, min_samples_leaf=100,
max_leaf_nodes=100, max_features=auto, max_depth=6, criterion=mse,
bootstrap=False, total=  23.4s
[CV]  n_estimators=9, min_samples_split=40, min_samples_leaf=20, m
ax_leaf_nodes=100, max_features=auto, max_depth=8, criterion=mse,
bootstrap=True, total=  18.6s
[CV] n_estimators=8, min_samples_split=40, min_samples_leaf=100, m
ax_leaf_nodes=5, max_features=auto, max_depth=6, criterion=mse, bo
otstrap=False
[CV] n_estimators=8, min_samples_split=40, min_samples_leaf=100, m
ax_leaf_nodes=5, max_features=auto, max_depth=6, criterion=mse, bo
otstrap=False
[CV] n_estimators=8, min_samples_split=40, min_samples_leaf=100, m
ax_leaf_nodes=5, max_features=auto, max_depth=6, criterion=mse, bo
otstrap=False
[CV] n_estimators=6, min_samples_split=10, min_samples_leaf=20, ma
x_leaf_nodes=5, max_features=auto, max_depth=8, criterion=mse, boo
tstrap=True
[CV] n_estimators=6, min_samples_split=10, min_samples_leaf=20, ma
x_leaf_nodes=5, max_features=auto, max_depth=8, criterion=mse, boo
tstrap=True
[CV] n_estimators=6, min_samples_split=10, min_samples_leaf=20, ma
x_leaf_nodes=5, max_features=auto, max_depth=8, criterion=mse, boo
tstrap=True
[CV] n_estimators=6, min_samples_split=10, min_samples_leaf=20, ma
x_leaf_nodes=5, max_features=auto, max_depth=8, criterion=mse, boo
tstrap=True
[CV]  n_estimators=9, min_samples_split=40, min_samples_leaf=20, m
ax_leaf_nodes=100, max_features=auto, max_depth=8, criterion=mse,
bootstrap=True, total=  19.5s
[CV] n_estimators=6, min_samples_split=10, min_samples_leaf=20, ma
x_leaf_nodes=5, max_features=auto, max_depth=8, criterion=mse, boo
```

tstrap=True
[CV] n_estimators=9, min_samples_split=20, min_samples_leaf=40, ma
x_leaf_nodes=100, max_features=auto, max_depth=2, criterion=mse, b
ootstrap=False
[CV] n_estimators=8, min_samples_split=20, min_samples_leaf=100,
max_leaf_nodes=20, max_features=sqrt, max_depth=6, criterion=mse,
bootstrap=True, total=   1.5s
[CV] n_estimators=9, min_samples_split=20, min_samples_leaf=40, ma
x_leaf_nodes=100, max_features=auto, max_depth=2, criterion=mse, b
ootstrap=False
[CV] n_estimators=8, min_samples_split=10, min_samples_leaf=100,
max_leaf_nodes=100, max_features=auto, max_depth=6, criterion=mse,
bootstrap=False, total=   24.1s
[CV] n_estimators=8, min_samples_split=40, min_samples_leaf=100,
max_leaf_nodes=20, max_features=sqrt, max_depth=6, criterion=mse,
bootstrap=False, total=   2.3s
[CV] n_estimators=9, min_samples_split=20, min_samples_leaf=40, ma
x_leaf_nodes=100, max_features=auto, max_depth=2, criterion=mse, b
ootstrap=False
[CV] n_estimators=9, min_samples_split=40, min_samples_leaf=100,
max_leaf_nodes=20, max_features=auto, max_depth=2, criterion=mse,
bootstrap=True, total=   7.9s
[CV]   n_estimators=8, min_samples_split=20, min_samples_leaf=100,
max_leaf_nodes=20, max_features=sqrt, max_depth=6, criterion=mse,
bootstrap=True, total=   1.5s
[CV]   n_estimators=8, min_samples_split=20, min_samples_leaf=100,
max_leaf_nodes=20, max_features=sqrt, max_depth=6, criterion=mse,
bootstrap=True, total=   1.9s
[CV] n_estimators=9, min_samples_split=20, min_samples_leaf=40, ma
x_leaf_nodes=100, max_features=auto, max_depth=2, criterion=mse, b
ootstrap=False
[CV] n_estimators=8, min_samples_split=40, min_samples_leaf=100,
max_leaf_nodes=20, max_features=sqrt, max_depth=6, criterion=mse,
bootstrap=False, total=   2.5s
[CV] n_estimators=8, min_samples_split=20, min_samples_leaf=100,
max_leaf_nodes=20, max_features=sqrt, max_depth=6, criterion=mse,
bootstrap=True, total=   1.8s
[CV] n_estimators=8, min_samples_split=20, min_samples_leaf=100,
max_leaf_nodes=20, max_features=sqrt, max_depth=6, criterion=mse,
bootstrap=True, total=   1.6s
[CV] n_estimators=9, min_samples_split=20, min_samples_leaf=40, ma
x_leaf_nodes=100, max_features=auto, max_depth=2, criterion=mse, b
ootstrap=False
[CV] n_estimators=8, min_samples_split=40, min_samples_leaf=100,
max_leaf_nodes=20, max_features=sqrt, max_depth=6, criterion=mse,
bootstrap=False, total=   2.5s
[CV] n_estimators=7, min_samples_split=20, min_samples_leaf=20, m
ax_leaf_nodes=5, max_features=auto, max_depth=2, criterion=mse, bo
otstrap=True, total=   6.8s
[CV] n_estimators=7, min_samples_split=20, min_samples_leaf=20, m
ax_leaf_nodes=5, max_features=auto, max_depth=2, criterion=mse, bo
otstrap=True, total=   7.0s
[CV] n_estimators=8, min_samples_split=40, min_samples_leaf=100,
max_leaf_nodes=20, max_features=sqrt, max_depth=6, criterion=mse,

```
bootstrap=False, total=   2.5s
[CV]  n_estimators=8, min_samples_split=40, min_samples_leaf=100,
max_leaf_nodes=20, max_features=sqrt, max_depth=6, criterion=mse,
bootstrap=False, total=   2.6s
[CV]  n_estimators=8, min_samples_split=10, min_samples_leaf=100,
max_leaf_nodes=100, max_features=auto, max_depth=6, criterion=mse,
bootstrap=False, total=  25.0s
[CV]  n_estimators=8, min_samples_split=10, min_samples_leaf=100,
max_leaf_nodes=100, max_features=auto, max_depth=6, criterion=mse,
bootstrap=False, total=  24.8s
[CV]  n_estimators=9, min_samples_split=40, min_samples_leaf=100,
max_leaf_nodes=20, max_features=auto, max_depth=2, criterion=mse,
bootstrap=True, total=   8.2s
[CV]  n_estimators=7, min_samples_split=20, min_samples_leaf=20, m
ax_leaf_nodes=5, max_features=auto, max_depth=2, criterion=mse, bo
otstrap=True, total=   6.9s
[CV]  n_estimators=7, min_samples_split=20, min_samples_leaf=20, m
ax_leaf_nodes=5, max_features=auto, max_depth=2, criterion=mse, bo
otstrap=True, total=   7.0s
[CV]  n_estimators=7, min_samples_split=20, min_samples_leaf=20, m
ax_leaf_nodes=5, max_features=auto, max_depth=2, criterion=mse, bo
otstrap=True, total=   7.2s
[CV]  n_estimators=9, min_samples_split=40, min_samples_leaf=100,
max_leaf_nodes=20, max_features=auto, max_depth=2, criterion=mse,
bootstrap=True, total=   8.7s
[CV]  n_estimators=9, min_samples_split=40, min_samples_leaf=100,
max_leaf_nodes=20, max_features=auto, max_depth=2, criterion=mse,
bootstrap=True, total=   8.5s
[CV]  n_estimators=6, min_samples_split=10, min_samples_leaf=40, m
ax_leaf_nodes=5, max_features=auto, max_depth=8, criterion=mse, bo
otstrap=True, total=   4.9s
[CV]  n_estimators=9, min_samples_split=40, min_samples_leaf=100,
max_leaf_nodes=20, max_features=auto, max_depth=2, criterion=mse,
bootstrap=True, total=   9.1s
[CV]  n_estimators=6, min_samples_split=10, min_samples_leaf=40, m
ax_leaf_nodes=5, max_features=auto, max_depth=8, criterion=mse, bo
otstrap=True, total=   5.0s
[CV]  n_estimators=6, min_samples_split=10, min_samples_leaf=40, m
ax_leaf_nodes=5, max_features=auto, max_depth=8, criterion=mse, bo
otstrap=True, total=   5.1s
[CV]  n_estimators=6, min_samples_split=10, min_samples_leaf=40, m
ax_leaf_nodes=5, max_features=auto, max_depth=8, criterion=mse, bo
otstrap=True, total=   5.1s
[CV]  n_estimators=6, min_samples_split=10, min_samples_leaf=40, m
ax_leaf_nodes=5, max_features=auto, max_depth=8, criterion=mse, bo
otstrap=True, total=   5.2s
[CV]  n_estimators=6, min_samples_split=10, min_samples_leaf=20, m
ax_leaf_nodes=5, max_features=auto, max_depth=8, criterion=mse, bo
otstrap=True, total=   3.4s
[CV]  n_estimators=6, min_samples_split=10, min_samples_leaf=20, m
ax_leaf_nodes=5, max_features=auto, max_depth=8, criterion=mse, bo
otstrap=True, total=   4.0s
[CV]  n_estimators=6, min_samples_split=10, min_samples_leaf=20, m
ax_leaf_nodes=5, max_features=auto, max_depth=8, criterion=mse, bo
```

```
otstrap=True, total=   4.0s
[CV]  n_estimators=8, min_samples_split=20, min_samples_leaf=40, m
ax_leaf_nodes=100, max_features=auto, max_depth=2, criterion=mse,
bootstrap=False, total=   8.5s
[CV]  n_estimators=6, min_samples_split=10, min_samples_leaf=20, m
ax_leaf_nodes=5, max_features=auto, max_depth=8, criterion=mse, bo
otstrap=True, total=   4.2s
[CV]  n_estimators=8, min_samples_split=20, min_samples_leaf=40, m
ax_leaf_nodes=100, max_features=auto, max_depth=2, criterion=mse,
bootstrap=False, total=   9.1s
[CV]  n_estimators=8, min_samples_split=20, min_samples_leaf=40, m
ax_leaf_nodes=100, max_features=auto, max_depth=2, criterion=mse,
bootstrap=False, total=   8.9s
[CV]  n_estimators=5, min_samples_split=20, min_samples_leaf=100,
max_leaf_nodes=20, max_features=auto, max_depth=8, criterion=mse,
bootstrap=False, total=   8.0s
[CV]  n_estimators=6, min_samples_split=10, min_samples_leaf=20, m
ax_leaf_nodes=5, max_features=auto, max_depth=8, criterion=mse, bo
otstrap=True, total=   4.1s
[CV]  n_estimators=5, min_samples_split=20, min_samples_leaf=100,
max_leaf_nodes=20, max_features=auto, max_depth=8, criterion=mse,
bootstrap=False, total=   8.0s
[CV]  n_estimators=8, min_samples_split=20, min_samples_leaf=40, m
ax_leaf_nodes=100, max_features=auto, max_depth=2, criterion=mse,
bootstrap=False, total=   9.1s
[CV]  n_estimators=5, min_samples_split=20, min_samples_leaf=100,
max_leaf_nodes=20, max_features=auto, max_depth=8, criterion=mse,
bootstrap=False, total=   7.9s
[CV]  n_estimators=5, min_samples_split=20, min_samples_leaf=100,
max_leaf_nodes=20, max_features=auto, max_depth=8, criterion=mse,
bootstrap=False, total=   7.9s
[CV]  n_estimators=8, min_samples_split=20, min_samples_leaf=40, m
ax_leaf_nodes=100, max_features=auto, max_depth=2, criterion=mse,
bootstrap=False, total=   8.9s
[CV]  n_estimators=5, min_samples_split=20, min_samples_leaf=100,
max_leaf_nodes=20, max_features=auto, max_depth=8, criterion=mse,
bootstrap=False, total=   7.8s
[CV]  n_estimators=8, min_samples_split=40, min_samples_leaf=100,
max_leaf_nodes=5, max_features=auto, max_depth=6, criterion=mse, b
ootstrap=False, total=   7.4s
[CV]  n_estimators=8, min_samples_split=40, min_samples_leaf=100,
max_leaf_nodes=5, max_features=auto, max_depth=6, criterion=mse, b
ootstrap=False, total=   7.2s
[CV]  n_estimators=8, min_samples_split=40, min_samples_leaf=100,
max_leaf_nodes=5, max_features=auto, max_depth=6, criterion=mse, b
ootstrap=False, total=   7.6s
[CV]  n_estimators=8, min_samples_split=40, min_samples_leaf=100,
max_leaf_nodes=5, max_features=auto, max_depth=6, criterion=mse, b
ootstrap=False, total=   7.8s
[CV]  n_estimators=8, min_samples_split=40, min_samples_leaf=100,
max_leaf_nodes=5, max_features=auto, max_depth=6, criterion=mse, b
ootstrap=False, total=   7.8s
[CV]  n_estimators=9, min_samples_split=20, min_samples_leaf=40, m
ax_leaf_nodes=100, max_features=auto, max_depth=2, criterion=mse,
```

```
           bootstrap=False, total=    7.4s
           [CV]  n_estimators=9, min_samples_split=20, min_samples_leaf=40, m
           ax_leaf_nodes=100, max_features=auto, max_depth=2, criterion=mse,
           bootstrap=False, total=    7.7s
           [CV]  n_estimators=9, min_samples_split=20, min_samples_leaf=40, m
           ax_leaf_nodes=100, max_features=auto, max_depth=2, criterion=mse,
           bootstrap=False, total=    7.4s
           [CV]  n_estimators=9, min_samples_split=20, min_samples_leaf=40, m
           ax_leaf_nodes=100, max_features=auto, max_depth=2, criterion=mse,
           bootstrap=False, total=    7.4s
           [CV]  n_estimators=9, min_samples_split=20, min_samples_leaf=40, m
           ax_leaf_nodes=100, max_features=auto, max_depth=2, criterion=mse,
           bootstrap=False, total=    7.9s

           [Parallel(n_jobs=-1)]: Done 500 out of 500 | elapsed:  1.1min fini
           shed
```

Out[101]:
```
           RandomizedSearchCV(cv=5, error_score='raise',
                     estimator=RandomForestRegressor(bootstrap=True, criterio
           n='mse', 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_sta
           rt=False),
                     fit_params=None, iid=True, n_iter=100, n_jobs=-1,
                     param_distributions={'criterion': ['mse'], 'n_estimators
           ': [2, 3, 4, 5, 6, 7, 8, 9], 'max_features': ['auto', 'sqrt'], 'ma
           x_depth': [2, 6, 8], 'min_samples_split': [10, 20, 40], 'min_sampl
           es_leaf': [20, 40, 100], 'bootstrap': [True, False], 'max_leaf_nod
           es': [5, 20, 100]},
                     pre_dispatch='2*n_jobs', random_state=None, refit=True,
                     return_train_score='warn', scoring=None, verbose=2)
```

In [102]:
```
           #Detect the best params
           rf_random.best_params_
```

Out[102]:
```
           {'n_estimators': 9,
            'min_samples_split': 40,
            'min_samples_leaf': 20,
            'max_leaf_nodes': 100,
            'max_features': 'auto',
            'max_depth': 8,
            'criterion': 'mse',
            'bootstrap': True}
```

Then we could fit model 3 with the best params from our RandomizedSearchCV.

```
In [103]:  #Fit model 3
           from sklearn.ensemble import RandomForestRegressor
           rf3 = RandomForestRegressor(n_estimators= 8,
                                        min_samples_split= 20,
                                        min_samples_leaf= 40,
                                        max_leaf_nodes= 100,
                                        max_features= 'auto',
                                        max_depth= 6,
                                        bootstrap= True)
           rf3.fit(X_train, y_train)
           y_rf3_pred = rf3.predict(X_val)
           print('RMSE: ', np.sqrt(mean_squared_error(y_val, y_rf3_pred)))
           print('R-square: ', r2_score(y_val, y_rf3_pred))
```

```
RMSE:   3.751082898507384
R-square:   0.06328992662989219
```

We used Grid Search Cross Validation again to tune the params.

```
In [104]:  #Model 4 with GridSearchCV
           from sklearn.model_selection import GridSearchCV
           param_grid = {
               'criterion': ['mse'],
               'bootstrap': [True],
               'max_depth': [2,6,8],
               'max_features': ['auto', 'sqrt'],
               'min_samples_leaf': [3, 4, 5],
               'min_samples_split': [8, 10, 12],
               'n_estimators': [2,3,4,5,6,7,8,9,10]
           }

           # Create a based model
           rf4 = RandomForestRegressor()

           # Instantiate the grid search model
           grid_search = GridSearchCV(estimator = rf4, param_grid = param_grid
           ,
                                      cv = 5, n_jobs = -1, verbose = 2)
           grid_search.fit(X_train, y_train)

           grid_search.best_params_
```

```
Fitting 5 folds for each of 486 candidates, totalling 2430 fits
[CV] bootstrap=True, criterion=mse, max_depth=2, max_features=auto
, min_samples_leaf=3, min_samples_split=8, n_estimators=2
[CV] bootstrap=True, criterion=mse, max_depth=2, max_features=auto
, min_samples_leaf=3, min_samples_split=8, n_estimators=2
[CV] bootstrap=True, criterion=mse, max_depth=2, max_features=auto
, min_samples_leaf=3, min_samples_split=8, n_estimators=2
[CV] bootstrap=True, criterion=mse, max_depth=2, max_features=auto
, min_samples_leaf=3, min_samples_split=8, n_estimators=2
```

```
[CV] bootstrap=True, criterion=mse, max_depth=2, max_features=auto
, min_samples_leaf=3, min_samples_split=8, n_estimators=2
[CV] bootstrap=True, criterion=mse, max_depth=2, max_features=auto
, min_samples_leaf=3, min_samples_split=8, n_estimators=3
[CV] bootstrap=True, criterion=mse, max_depth=2, max_features=auto
, min_samples_leaf=3, min_samples_split=8, n_estimators=3
[CV] bootstrap=True, criterion=mse, max_depth=2, max_features=auto
, min_samples_leaf=3, min_samples_split=8, n_estimators=3
[CV] bootstrap=True, criterion=mse, max_depth=2, max_features=auto
, min_samples_leaf=3, min_samples_split=8, n_estimators=3
[CV]  bootstrap=True, criterion=mse, max_depth=2, max_features=aut
o, min_samples_leaf=3, min_samples_split=8, n_estimators=2, total=
0.9s
[CV] bootstrap=True, criterion=mse, max_depth=2, max_features=auto
, min_samples_leaf=3, min_samples_split=8, n_estimators=3
[CV]  bootstrap=True, criterion=mse, max_depth=2, max_features=aut
o, min_samples_leaf=3, min_samples_split=8, n_estimators=2, total=
0.8s
[CV]  bootstrap=True, criterion=mse, max_depth=2, max_features=aut
o, min_samples_leaf=3, min_samples_split=8, n_estimators=2, total=
0.9s
[CV] bootstrap=True, criterion=mse, max_depth=2, max_features=auto
, min_samples_leaf=3, min_samples_split=8, n_estimators=4
[CV] bootstrap=True, criterion=mse, max_depth=2, max_features=auto
, min_samples_leaf=3, min_samples_split=8, n_estimators=4
[CV]  bootstrap=True, criterion=mse, max_depth=2, max_features=aut
o, min_samples_leaf=3, min_samples_split=8, n_estimators=2, total=
0.9s
[CV] bootstrap=True, criterion=mse, max_depth=2, max_features=auto
, min_samples_leaf=3, min_samples_split=8, n_estimators=4
[CV] bootstrap=True, criterion=mse, max_depth=2, max_features=auto
, min_samples_leaf=3, min_samples_split=8, n_estimators=4
[CV]  bootstrap=True, criterion=mse, max_depth=2, max_features=aut
o, min_samples_leaf=3, min_samples_split=8, n_estimators=2, total=
1.0s
[CV] bootstrap=True, criterion=mse, max_depth=2, max_features=auto
, min_samples_leaf=3, min_samples_split=8, n_estimators=4
[CV] bootstrap=True, criterion=mse, max_depth=2, max_features=auto
, min_samples_leaf=3, min_samples_split=8, n_estimators=5
[CV] bootstrap=True, criterion=mse, max_depth=2, max_features=auto
, min_samples_leaf=3, min_samples_split=8, n_estimators=5
[CV] bootstrap=True, criterion=mse, max_depth=2, max_features=auto
, min_samples_leaf=3, min_samples_split=8, n_estimators=5
[CV] bootstrap=True, criterion=mse, max_depth=2, max_features=auto
, min_samples_leaf=3, min_samples_split=8, n_estimators=5
[CV]  bootstrap=True, criterion=mse, max_depth=2, max_features=aut
o, min_samples_leaf=3, min_samples_split=8, n_estimators=3, total=
1.3s
[CV] bootstrap=True, criterion=mse, max_depth=2, max_features=auto
, min_samples_leaf=3, min_samples_split=8, n_estimators=5
[CV] bootstrap=True, criterion=mse, max_depth=2, max_features=auto
, min_samples_leaf=3, min_samples_split=8, n_estimators=6
[CV]  bootstrap=True, criterion=mse, max_depth=2, max_features=aut
o, min_samples_leaf=3, min_samples_split=8, n_estimators=3, total=
```

```
1.4s
[CV]  bootstrap=True, criterion=mse, max_depth=2, max_features=aut
o, min_samples_leaf=3, min_samples_split=8, n_estimators=3, total=
1.4s
[CV] bootstrap=True, criterion=mse, max_depth=2, max_features=auto
, min_samples_leaf=3, min_samples_split=8, n_estimators=6
[CV]  bootstrap=True, criterion=mse, max_depth=2, max_features=aut
o, min_samples_leaf=3, min_samples_split=8, n_estimators=3, total=
1.4s
[CV]  bootstrap=True, criterion=mse, max_depth=2, max_features=aut
o, min_samples_leaf=3, min_samples_split=8, n_estimators=3, total=
1.3s
[CV] bootstrap=True, criterion=mse, max_depth=2, max_features=auto
, min_samples_leaf=3, min_samples_split=8, n_estimators=6
[CV] bootstrap=True, criterion=mse, max_depth=2, max_features=auto
, min_samples_leaf=3, min_samples_split=8, n_estimators=6
[CV] bootstrap=True, criterion=mse, max_depth=2, max_features=auto
, min_samples_leaf=3, min_samples_split=8, n_estimators=6
[CV] bootstrap=True, criterion=mse, max_depth=2, max_features=auto
, min_samples_leaf=3, min_samples_split=8, n_estimators=7
[CV]  bootstrap=True, criterion=mse, max_depth=2, max_features=aut
o, min_samples_leaf=3, min_samples_split=8, n_estimators=4, total=
1.6s
[CV] bootstrap=True, criterion=mse, max_depth=2, max_features=auto
, min_samples_leaf=3, min_samples_split=8, n_estimators=7
[CV] bootstrap=True, criterion=mse, max_depth=2, max_features=auto
, min_samples_leaf=3, min_samples_split=8, n_estimators=7
[CV]  bootstrap=True, criterion=mse, max_depth=2, max_features=aut
o, min_samples_leaf=3, min_samples_split=8, n_estimators=4, total=
1.8s
[CV] bootstrap=True, criterion=mse, max_depth=2, max_features=auto
, min_samples_leaf=3, min_samples_split=8, n_estimators=7
[CV]  bootstrap=True, criterion=mse, max_depth=2, max_features=aut
o, min_samples_leaf=3, min_samples_split=8, n_estimators=4, total=
1.7s
[CV] bootstrap=True, criterion=mse, max_depth=2, max_features=auto
, min_samples_leaf=3, min_samples_split=8, n_estimators=7
[CV] bootstrap=True, criterion=mse, max_depth=2, max_features=auto
, min_samples_leaf=3, min_samples_split=8, n_estimators=8
[CV] bootstrap=True, criterion=mse, max_depth=2, max_features=auto
, min_samples_leaf=3, min_samples_split=8, n_estimators=8
[CV] bootstrap=True, criterion=mse, max_depth=2, max_features=auto
, min_samples_leaf=3, min_samples_split=8, n_estimators=8
[CV] bootstrap=True, criterion=mse, max_depth=2, max_features=auto
, min_samples_leaf=3, min_samples_split=8, n_estimators=8
[CV] bootstrap=True, criterion=mse, max_depth=2, max_features=auto
, min_samples_leaf=3, min_samples_split=8, n_estimators=8
[CV] bootstrap=True, criterion=mse, max_depth=2, max_features=auto
, min_samples_leaf=3, min_samples_split=8, n_estimators=9
[CV]  bootstrap=True, criterion=mse, max_depth=2, max_features=aut
o, min_samples_leaf=3, min_samples_split=8, n_estimators=5, total=
2.1s
[CV] bootstrap=True, criterion=mse, max_depth=2, max_features=auto
, min_samples_leaf=3, min_samples_split=8, n_estimators=9
```

```
[CV]  bootstrap=True, criterion=mse, max_depth=2, max_features=aut
o, min_samples_leaf=3, min_samples_split=8, n_estimators=5, total=
2.1s
[CV]  bootstrap=True, criterion=mse, max_depth=2, max_features=aut
o, min_samples_leaf=3, min_samples_split=8, n_estimators=5, total=
2.0s
[CV]  bootstrap=True, criterion=mse, max_depth=2, max_features=aut
o, min_samples_leaf=3, min_samples_split=8, n_estimators=4, total=
2.5s
[CV] bootstrap=True, criterion=mse, max_depth=2, max_features=auto
, min_samples_leaf=3, min_samples_split=8, n_estimators=9
[CV]  bootstrap=True, criterion=mse, max_depth=2, max_features=aut
o, min_samples_leaf=3, min_samples_split=8, n_estimators=4, total=
2.7s
[CV] bootstrap=True, criterion=mse, max_depth=2, max_features=auto
, min_samples_leaf=3, min_samples_split=8, n_estimators=9
[CV]  bootstrap=True, criterion=mse, max_depth=2, max_features=aut
o, min_samples_leaf=3, min_samples_split=8, n_estimators=5, total=
2.1s
[CV]  bootstrap=True, criterion=mse, max_depth=2, max_features=aut
o, min_samples_leaf=3, min_samples_split=8, n_estimators=5, total=
2.5s
[CV] bootstrap=True, criterion=mse, max_depth=2, max_features=auto
, min_samples_leaf=3, min_samples_split=8, n_estimators=9
[CV] bootstrap=True, criterion=mse, max_depth=2, max_features=auto
, min_samples_leaf=3, min_samples_split=8, n_estimators=10
[CV] bootstrap=True, criterion=mse, max_depth=2, max_features=auto
, min_samples_leaf=3, min_samples_split=8, n_estimators=10
[CV]  bootstrap=True, criterion=mse, max_depth=2, max_features=aut
o, min_samples_leaf=3, min_samples_split=8, n_estimators=6, total=
2.4s
[CV] bootstrap=True, criterion=mse, max_depth=2, max_features=auto
, min_samples_leaf=3, min_samples_split=8, n_estimators=10
[CV] bootstrap=True, criterion=mse, max_depth=2, max_features=auto
, min_samples_leaf=3, min_samples_split=8, n_estimators=10
[CV]  bootstrap=True, criterion=mse, max_depth=2, max_features=aut
o, min_samples_leaf=3, min_samples_split=8, n_estimators=6, total=
2.4s
[CV] bootstrap=True, criterion=mse, max_depth=2, max_features=auto
, min_samples_leaf=3, min_samples_split=8, n_estimators=10
[CV] bootstrap=True, criterion=mse, max_depth=2, max_features=auto
, min_samples_leaf=3, min_samples_split=10, n_estimators=2
[CV] bootstrap=True, criterion=mse, max_depth=2, max_features=auto
, min_samples_leaf=3, min_samples_split=10, n_estimators=2
[CV]  bootstrap=True, criterion=mse, max_depth=2, max_features=aut
o, min_samples_leaf=3, min_samples_split=8, n_estimators=6, total=
2.6s
[CV] bootstrap=True, criterion=mse, max_depth=2, max_features=auto
, min_samples_leaf=3, min_samples_split=10, n_estimators=2
[CV]  bootstrap=True, criterion=mse, max_depth=2, max_features=aut
o, min_samples_leaf=3, min_samples_split=8, n_estimators=6, total=
2.7s
[CV] bootstrap=True, criterion=mse, max_depth=2, max_features=auto
, min_samples_leaf=3, min_samples_split=10, n_estimators=2
```

```
[CV] bootstrap=True, criterion=mse, max_depth=2, max_features=auto
, min_samples_leaf=3, min_samples_split=10, n_estimators=2
[CV] bootstrap=True, criterion=mse, max_depth=2, max_features=auto
, min_samples_leaf=3, min_samples_split=10, n_estimators=3
[CV] bootstrap=True, criterion=mse, max_depth=2, max_features=auto
, min_samples_leaf=3, min_samples_split=10, n_estimators=3
[CV]  bootstrap=True, criterion=mse, max_depth=2, max_features=aut
o, min_samples_leaf=3, min_samples_split=8, n_estimators=6, total=
2.9s
[CV] bootstrap=True, criterion=mse, max_depth=2, max_features=auto
, min_samples_leaf=3, min_samples_split=10, n_estimators=3
[CV] bootstrap=True, criterion=mse, max_depth=2, max_features=auto
, min_samples_leaf=3, min_samples_split=10, n_estimators=3
[CV]  bootstrap=True, criterion=mse, max_depth=2, max_features=aut
o, min_samples_leaf=3, min_samples_split=8, n_estimators=7, total=
3.1s
[CV] bootstrap=True, criterion=mse, max_depth=2, max_features=auto
, min_samples_leaf=3, min_samples_split=10, n_estimators=3
[CV]  bootstrap=True, criterion=mse, max_depth=2, max_features=aut
o, min_samples_leaf=3, min_samples_split=8, n_estimators=7, total=
3.0s
[CV] bootstrap=True, criterion=mse, max_depth=2, max_features=auto
, min_samples_leaf=3, min_samples_split=10, n_estimators=4
[CV]  bootstrap=True, criterion=mse, max_depth=2, max_features=aut
o, min_samples_leaf=3, min_samples_split=10, n_estimators=2, total
=   0.9s
[CV] bootstrap=True, criterion=mse, max_depth=2, max_features=auto
, min_samples_leaf=3, min_samples_split=10, n_estimators=4
[CV]  bootstrap=True, criterion=mse, max_depth=2, max_features=aut
o, min_samples_leaf=3, min_samples_split=10, n_estimators=2, total
=   1.1s
[CV] bootstrap=True, criterion=mse, max_depth=2, max_features=auto
, min_samples_leaf=3, min_samples_split=10, n_estimators=4
[CV]  bootstrap=True, criterion=mse, max_depth=2, max_features=aut
o, min_samples_leaf=3, min_samples_split=8, n_estimators=7, total=
3.2s
[CV]  bootstrap=True, criterion=mse, max_depth=2, max_features=aut
o, min_samples_leaf=3, min_samples_split=8, n_estimators=7, total=
3.1s
[CV] bootstrap=True, criterion=mse, max_depth=2, max_features=auto
, min_samples_leaf=3, min_samples_split=10, n_estimators=4
[CV]  bootstrap=True, criterion=mse, max_depth=2, max_features=aut
o, min_samples_leaf=3, min_samples_split=10, n_estimators=2, total
=   1.1s
[CV]  bootstrap=True, criterion=mse, max_depth=2, max_features=aut
o, min_samples_leaf=3, min_samples_split=8, n_estimators=7, total=
3.1s
[CV] bootstrap=True, criterion=mse, max_depth=2, max_features=auto
, min_samples_leaf=3, min_samples_split=10, n_estimators=4
[CV]  bootstrap=True, criterion=mse, max_depth=2, max_features=aut
o, min_samples_leaf=3, min_samples_split=10, n_estimators=2, total
=   1.0s
[CV] bootstrap=True, criterion=mse, max_depth=2, max_features=auto
, min_samples_leaf=3, min_samples_split=10, n_estimators=5
```

```
[CV] bootstrap=True, criterion=mse, max_depth=2, max_features=auto
, min_samples_leaf=3, min_samples_split=10, n_estimators=5
[CV]  bootstrap=True, criterion=mse, max_depth=2, max_features=aut
o, min_samples_leaf=3, min_samples_split=10, n_estimators=2, total
=   1.3s
[CV] bootstrap=True, criterion=mse, max_depth=2, max_features=auto
, min_samples_leaf=3, min_samples_split=10, n_estimators=5
[CV] bootstrap=True, criterion=mse, max_depth=2, max_features=auto
, min_samples_leaf=3, min_samples_split=10, n_estimators=5
[CV]  bootstrap=True, criterion=mse, max_depth=2, max_features=aut
o, min_samples_leaf=3, min_samples_split=8, n_estimators=8, total=
3.5s
[CV] bootstrap=True, criterion=mse, max_depth=2, max_features=auto
, min_samples_leaf=3, min_samples_split=10, n_estimators=5
[CV]  bootstrap=True, criterion=mse, max_depth=2, max_features=aut
o, min_samples_leaf=3, min_samples_split=8, n_estimators=8, total=
3.5s
[CV] bootstrap=True, criterion=mse, max_depth=2, max_features=auto
, min_samples_leaf=3, min_samples_split=10, n_estimators=6
[CV]  bootstrap=True, criterion=mse, max_depth=2, max_features=aut
o, min_samples_leaf=3, min_samples_split=10, n_estimators=3, total
=   1.5s
[CV] bootstrap=True, criterion=mse, max_depth=2, max_features=auto
, min_samples_leaf=3, min_samples_split=10, n_estimators=6
[CV] bootstrap=True, criterion=mse, max_depth=2, max_features=auto
, min_samples_leaf=3, min_samples_split=10, n_estimators=6
[CV]  bootstrap=True, criterion=mse, max_depth=2, max_features=aut
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=   1.6s
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o, min_samples_leaf=3, min_samples_split=10, n_estimators=3, total
=   1.6s
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, min_samples_leaf=3, min_samples_split=10, n_estimators=6
[CV]  bootstrap=True, criterion=mse, max_depth=2, max_features=aut
o, min_samples_leaf=3, min_samples_split=10, n_estimators=3, total
=   1.7s
[CV] bootstrap=True, criterion=mse, max_depth=2, max_features=auto
, min_samples_leaf=3, min_samples_split=10, n_estimators=7
[CV]  bootstrap=True, criterion=mse, max_depth=2, max_features=aut
o, min_samples_leaf=3, min_samples_split=10, n_estimators=3, total
=   1.6s
[CV] bootstrap=True, criterion=mse, max_depth=2, max_features=auto
, min_samples_leaf=3, min_samples_split=10, n_estimators=7
[CV]  bootstrap=True, criterion=mse, max_depth=2, max_features=aut
o, min_samples_leaf=3, min_samples_split=8, n_estimators=9, total=
3.7s
[CV]  bootstrap=True, criterion=mse, max_depth=2, max_features=aut
o, min_samples_leaf=3, min_samples_split=8, n_estimators=8, total=
4.0s
[CV]  bootstrap=True, criterion=mse, max_depth=2, max_features=aut
o, min_samples_leaf=3, min_samples_split=8, n_estimators=8, total=
```

```
4.1s
[CV] bootstrap=True, criterion=mse, max_depth=2, max_features=auto
, min_samples_leaf=3, min_samples_split=10, n_estimators=7
[CV] bootstrap=True, criterion=mse, max_depth=2, max_features=auto
, min_samples_leaf=3, min_samples_split=10, n_estimators=7
[CV] bootstrap=True, criterion=mse, max_depth=2, max_features=auto
, min_samples_leaf=3, min_samples_split=10, n_estimators=7
[CV]  bootstrap=True, criterion=mse, max_depth=2, max_features=aut
o, min_samples_leaf=3, min_samples_split=8, n_estimators=8, total=
4.2s
[CV] bootstrap=True, criterion=mse, max_depth=2, max_features=auto
, min_samples_leaf=3, min_samples_split=10, n_estimators=8
[CV]  bootstrap=True, criterion=mse, max_depth=2, max_features=aut
o, min_samples_leaf=3, min_samples_split=8, n_estimators=9, total=
4.0s
[CV] bootstrap=True, criterion=mse, max_depth=2, max_features=auto
, min_samples_leaf=3, min_samples_split=10, n_estimators=8
[CV]  bootstrap=True, criterion=mse, max_depth=2, max_features=aut
o, min_samples_leaf=3, min_samples_split=10, n_estimators=4, total
=   2.2s
[CV] bootstrap=True, criterion=mse, max_depth=2, max_features=auto
, min_samples_leaf=3, min_samples_split=10, n_estimators=8
[CV]  bootstrap=True, criterion=mse, max_depth=2, max_features=aut
o, min_samples_leaf=3, min_samples_split=10, n_estimators=4, total
=   1.9s
[CV]  bootstrap=True, criterion=mse, max_depth=2, max_features=aut
o, min_samples_leaf=3, min_samples_split=10, n_estimators=4, total
=   2.1s
[CV] bootstrap=True, criterion=mse, max_depth=2, max_features=auto
, min_samples_leaf=3, min_samples_split=10, n_estimators=8
[CV]  bootstrap=True, criterion=mse, max_depth=2, max_features=aut
o, min_samples_leaf=3, min_samples_split=10, n_estimators=4, total
=   2.2s

[Parallel(n_jobs=-1)]: Done  50 tasks      | elapsed:    8.5s

[CV] bootstrap=True, criterion=mse, max_depth=2, max_features=auto
, min_samples_leaf=3, min_samples_split=10, n_estimators=8
[CV] bootstrap=True, criterion=mse, max_depth=2, max_features=auto
, min_samples_leaf=3, min_samples_split=10, n_estimators=9
[CV] bootstrap=True, criterion=mse, max_depth=2, max_features=auto
, min_samples_leaf=3, min_samples_split=10, n_estimators=9
[CV]  bootstrap=True, criterion=mse, max_depth=2, max_features=aut
o, min_samples_leaf=3, min_samples_split=10, n_estimators=4, total
=   2.2s
[CV] bootstrap=True, criterion=mse, max_depth=2, max_features=auto
, min_samples_leaf=3, min_samples_split=10, n_estimators=9
[CV]  bootstrap=True, criterion=mse, max_depth=2, max_features=aut
o, min_samples_leaf=3, min_samples_split=8, n_estimators=9, total=
4.6s
[CV]  bootstrap=True, criterion=mse, max_depth=2, max_features=aut
o, min_samples_leaf=3, min_samples_split=8, n_estimators=9, total=
4.7s
[CV]  bootstrap=True, criterion=mse, max_depth=2, max_features=aut
```

```
o, min_samples_leaf=3, min_samples_split=8, n_estimators=9, total=
 4.5s
[CV] bootstrap=True, criterion=mse, max_depth=2, max_features=auto
, min_samples_leaf=3, min_samples_split=10, n_estimators=9
[CV] bootstrap=True, criterion=mse, max_depth=2, max_features=auto
, min_samples_leaf=3, min_samples_split=10, n_estimators=9
[CV]  bootstrap=True, criterion=mse, max_depth=2, max_features=aut
o, min_samples_leaf=3, min_samples_split=10, n_estimators=5, total
=   2.5s
[CV] bootstrap=True, criterion=mse, max_depth=2, max_features=auto
, min_samples_leaf=3, min_samples_split=10, n_estimators=10
[CV]  bootstrap=True, criterion=mse, max_depth=2, max_features=aut
o, min_samples_leaf=3, min_samples_split=10, n_estimators=5, total
=   2.5s
[CV] bootstrap=True, criterion=mse, max_depth=2, max_features=auto
, min_samples_leaf=3, min_samples_split=10, n_estimators=10
[CV] bootstrap=True, criterion=mse, max_depth=2, max_features=auto
, min_samples_leaf=3, min_samples_split=10, n_estimators=10
[CV]  bootstrap=True, criterion=mse, max_depth=2, max_features=aut
o, min_samples_leaf=3, min_samples_split=10, n_estimators=5, total
=   2.6s
[CV]  bootstrap=True, criterion=mse, max_depth=2, max_features=aut
o, min_samples_leaf=3, min_samples_split=10, n_estimators=5, total
=   2.5s
[CV] bootstrap=True, criterion=mse, max_depth=2, max_features=auto
, min_samples_leaf=3, min_samples_split=10, n_estimators=10
[CV]  bootstrap=True, criterion=mse, max_depth=2, max_features=aut
o, min_samples_leaf=3, min_samples_split=8, n_estimators=10, total
=   4.9s
[CV]  bootstrap=True, criterion=mse, max_depth=2, max_features=aut
o, min_samples_leaf=3, min_samples_split=10, n_estimators=5, total
=   2.5s
[CV] bootstrap=True, criterion=mse, max_depth=2, max_features=auto
, min_samples_leaf=3, min_samples_split=10, n_estimators=10
[CV]  bootstrap=True, criterion=mse, max_depth=2, max_features=aut
o, min_samples_leaf=3, min_samples_split=8, n_estimators=10, total
=   4.9s
[CV] bootstrap=True, criterion=mse, max_depth=2, max_features=auto
, min_samples_leaf=3, min_samples_split=12, n_estimators=2
[CV]  bootstrap=True, criterion=mse, max_depth=2, max_features=aut
o, min_samples_leaf=3, min_samples_split=8, n_estimators=10, total
=   5.0s
[CV] bootstrap=True, criterion=mse, max_depth=2, max_features=auto
, min_samples_leaf=3, min_samples_split=12, n_estimators=2
[CV] bootstrap=True, criterion=mse, max_depth=2, max_features=auto
, min_samples_leaf=3, min_samples_split=12, n_estimators=2
[CV] bootstrap=True, criterion=mse, max_depth=2, max_features=auto
, min_samples_leaf=3, min_samples_split=12, n_estimators=2
[CV]  bootstrap=True, criterion=mse, max_depth=2, max_features=aut
o, min_samples_leaf=3, min_samples_split=8, n_estimators=10, total
=   5.1s
[CV] bootstrap=True, criterion=mse, max_depth=2, max_features=auto
, min_samples_leaf=3, min_samples_split=12, n_estimators=2
[CV]  bootstrap=True, criterion=mse, max_depth=2, max_features=aut
```

```
o, min_samples_leaf=3, min_samples_split=8, n_estimators=10, total
=   5.2s
[CV]  bootstrap=True, criterion=mse, max_depth=2, max_features=aut
o, min_samples_leaf=3, min_samples_split=10, n_estimators=6, total
=   2.6s
[CV] bootstrap=True, criterion=mse, max_depth=2, max_features=auto
, min_samples_leaf=3, min_samples_split=12, n_estimators=3
[CV]  bootstrap=True, criterion=mse, max_depth=2, max_features=aut
o, min_samples_leaf=3, min_samples_split=10, n_estimators=6, total
=   3.0s
[CV] bootstrap=True, criterion=mse, max_depth=2, max_features=auto
, min_samples_leaf=3, min_samples_split=12, n_estimators=3
[CV] bootstrap=True, criterion=mse, max_depth=2, max_features=auto
, min_samples_leaf=3, min_samples_split=12, n_estimators=3
[CV]  bootstrap=True, criterion=mse, max_depth=2, max_features=aut
o, min_samples_leaf=3, min_samples_split=10, n_estimators=6, total
=   3.2s
[CV]  bootstrap=True, criterion=mse, max_depth=2, max_features=aut
o, min_samples_leaf=3, min_samples_split=10, n_estimators=6, total
=   3.0s
[CV]  bootstrap=True, criterion=mse, max_depth=2, max_features=aut
o, min_samples_leaf=3, min_samples_split=10, n_estimators=6, total
=   3.1s
[CV] bootstrap=True, criterion=mse, max_depth=2, max_features=auto
, min_samples_leaf=3, min_samples_split=12, n_estimators=3
[CV] bootstrap=True, criterion=mse, max_depth=2, max_features=auto
, min_samples_leaf=3, min_samples_split=12, n_estimators=3
[CV]  bootstrap=True, criterion=mse, max_depth=2, max_features=aut
o, min_samples_leaf=3, min_samples_split=10, n_estimators=7, total
=   3.0s
[CV] bootstrap=True, criterion=mse, max_depth=2, max_features=auto
, min_samples_leaf=3, min_samples_split=12, n_estimators=4
[CV]  bootstrap=True, criterion=mse, max_depth=2, max_features=aut
o, min_samples_leaf=3, min_samples_split=10, n_estimators=7, total
=   3.0s
[CV] bootstrap=True, criterion=mse, max_depth=2, max_features=auto
, min_samples_leaf=3, min_samples_split=12, n_estimators=4
[CV] bootstrap=True, criterion=mse, max_depth=2, max_features=auto
, min_samples_leaf=3, min_samples_split=12, n_estimators=4
[CV] bootstrap=True, criterion=mse, max_depth=2, max_features=auto
, min_samples_leaf=3, min_samples_split=12, n_estimators=4
[CV]  bootstrap=True, criterion=mse, max_depth=2, max_features=aut
o, min_samples_leaf=3, min_samples_split=10, n_estimators=7, total
=   3.1s
[CV]  bootstrap=True, criterion=mse, max_depth=2, max_features=aut
o, min_samples_leaf=3, min_samples_split=12, n_estimators=2, total
=   0.9s
[CV] bootstrap=True, criterion=mse, max_depth=2, max_features=auto
, min_samples_leaf=3, min_samples_split=12, n_estimators=4
[CV]  bootstrap=True, criterion=mse, max_depth=2, max_features=aut
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=   1.4s
[CV] bootstrap=True, criterion=mse, max_depth=2, max_features=auto
, min_samples_leaf=3, min_samples_split=12, n_estimators=5
```

```
[CV]  bootstrap=True, criterion=mse, max_depth=2, max_features=aut
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=   3.3s
[CV]  bootstrap=True, criterion=mse, max_depth=2, max_features=aut
o, min_samples_leaf=3, min_samples_split=10, n_estimators=7, total
=   3.1s
[CV]  bootstrap=True, criterion=mse, max_depth=2, max_features=aut
o, min_samples_leaf=3, min_samples_split=12, n_estimators=2, total
=   1.4s
[CV] bootstrap=True, criterion=mse, max_depth=2, max_features=auto
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[CV]  bootstrap=True, criterion=mse, max_depth=2, max_features=aut
o, min_samples_leaf=3, min_samples_split=12, n_estimators=2, total
=   1.4s
[CV] bootstrap=True, criterion=mse, max_depth=2, max_features=auto
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[CV]  bootstrap=True, criterion=mse, max_depth=2, max_features=aut
o, min_samples_leaf=3, min_samples_split=10, n_estimators=8, total
=   3.3s
[CV]  bootstrap=True, criterion=mse, max_depth=2, max_features=aut
o, min_samples_leaf=3, min_samples_split=12, n_estimators=2, total
=   1.4s
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o, min_samples_leaf=3, min_samples_split=12, n_estimators=3, total
=   1.3s
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[CV]  bootstrap=True, criterion=mse, max_depth=2, max_features=aut
o, min_samples_leaf=3, min_samples_split=12, n_estimators=3, total
=   1.4s
[CV]  bootstrap=True, criterion=mse, max_depth=2, max_features=aut
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=   1.2s
[CV] bootstrap=True, criterion=mse, max_depth=2, max_features=auto
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, min_samples_leaf=3, min_samples_split=12, n_estimators=6
[CV]  bootstrap=True, criterion=mse, max_depth=2, max_features=aut
o, min_samples_leaf=3, min_samples_split=10, n_estimators=8, total
=   3.5s
[CV]  bootstrap=True, criterion=mse, max_depth=2, max_features=aut
o, min_samples_leaf=3, min_samples_split=10, n_estimators=8, total
=   3.7s
[CV]  bootstrap=True, criterion=mse, max_depth=2, max_features=aut
o, min_samples_leaf=3, min_samples_split=12, n_estimators=3, total
=   1.5s
[CV] bootstrap=True, criterion=mse, max_depth=2, max_features=auto
, min_samples_leaf=3, min_samples_split=12, n_estimators=6
[CV] bootstrap=True, criterion=mse, max_depth=2, max_features=auto
, min_samples_leaf=3, min_samples_split=12, n_estimators=6
```

```
[CV] bootstrap=True, criterion=mse, max_depth=2, max_features=auto
, min_samples_leaf=3, min_samples_split=12, n_estimators=7
[CV] bootstrap=True, criterion=mse, max_depth=2, max_features=auto
, min_samples_leaf=3, min_samples_split=12, n_estimators=7
[CV]  bootstrap=True, criterion=mse, max_depth=2, max_features=aut
o, min_samples_leaf=3, min_samples_split=10, n_estimators=8, total
=   3.8s
[CV] bootstrap=True, criterion=mse, max_depth=2, max_features=auto
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[CV]  bootstrap=True, criterion=mse, max_depth=2, max_features=aut
o, min_samples_leaf=3, min_samples_split=12, n_estimators=4, total
=   1.7s
[CV] bootstrap=True, criterion=mse, max_depth=2, max_features=auto
, min_samples_leaf=3, min_samples_split=12, n_estimators=7
[CV] bootstrap=True, criterion=mse, max_depth=2, max_features=auto
, min_samples_leaf=3, min_samples_split=12, n_estimators=7
[CV]  bootstrap=True, criterion=mse, max_depth=2, max_features=aut
o, min_samples_leaf=3, min_samples_split=12, n_estimators=4, total
=   1.7s
[CV] bootstrap=True, criterion=mse, max_depth=2, max_features=auto
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[CV]  bootstrap=True, criterion=mse, max_depth=2, max_features=aut
o, min_samples_leaf=3, min_samples_split=12, n_estimators=4, total
=   2.0s
[CV]  bootstrap=True, criterion=mse, max_depth=2, max_features=aut
o, min_samples_leaf=3, min_samples_split=12, n_estimators=3, total
=   2.1s
[CV]  bootstrap=True, criterion=mse, max_depth=2, max_features=aut
o, min_samples_leaf=3, min_samples_split=12, n_estimators=4, total
=   1.7s
[CV] bootstrap=True, criterion=mse, max_depth=2, max_features=auto
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=   4.3s
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=   1.9s
[CV] bootstrap=True, criterion=mse, max_depth=2, max_features=auto
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[CV] bootstrap=True, criterion=mse, max_depth=2, max_features=auto
, min_samples_leaf=3, min_samples_split=12, n_estimators=9
[CV]  bootstrap=True, criterion=mse, max_depth=2, max_features=aut
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=   4.5s
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[CV]  bootstrap=True, criterion=mse, max_depth=2, max_features=aut
```

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=   4.7s
[CV] bootstrap=True, criterion=mse, max_depth=2, max_features=aut
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=   4.5s
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=   2.5s
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=   4.8s
[CV] bootstrap=True, criterion=mse, max_depth=2, max_features=aut
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=   4.9s
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[CV] bootstrap=True, criterion=mse, max_depth=2, max_features=aut
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=   2.5s
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=    2.8s
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=    3.3s
```

```
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=   3.9s
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=   1.0s
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=   0.9s

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3.0s
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2.9s
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3.0s
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=   1.1s
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=   1.0s
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=   1.3s
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3.5s
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3.4s
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o, min_samples_leaf=4, min_samples_split=8, n_estimators=8, total=
```

```
                     3.6s
[CV]  bootstrap=True, criterion=mse, max_depth=2, max_features=aut
o, min_samples_leaf=4, min_samples_split=10, n_estimators=3, total
=   1.4s
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=   1.6s
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=   1.4s
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=   1.8s
[CV]  bootstrap=True, criterion=mse, max_depth=2, max_features=aut
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=   1.7s
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4.1s
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```

```
=    1.7s
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3.9s
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[CV]  bootstrap=True, criterion=mse, max_depth=2, max_features=aut
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=    4.2s
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=    2.1s
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=    4.1s
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=    4.1s
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=    2.3s
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=    2.2s
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=    4.3s
```

```
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=   2.4s
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=   2.5s
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=   2.7s
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=   2.7s
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```

```
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=    1.2s
[CV] bootstrap=True, criterion=mse, max_depth=2, max_features=auto
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=    3.3s
[CV]  bootstrap=True, criterion=mse, max_depth=2, max_features=aut
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=    3.3s
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l=   4.1s
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, min_samples_leaf=4, min_samples_split=12, n_estimators=9
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o, min_samples_leaf=4, min_samples_split=10, n_estimators=10, tota
l=   4.1s
[CV] bootstrap=True, criterion=mse, max_depth=2, max_features=auto
, min_samples_leaf=4, min_samples_split=12, n_estimators=9
[CV]  bootstrap=True, criterion=mse, max_depth=2, max_features=aut
o, min_samples_leaf=4, min_samples_split=12, n_estimators=5, total
=   2.3s
[CV] bootstrap=True, criterion=mse, max_depth=2, max_features=auto
, min_samples_leaf=4, min_samples_split=12, n_estimators=9
[CV]  bootstrap=True, criterion=mse, max_depth=2, max_features=aut
o, min_samples_leaf=4, min_samples_split=10, n_estimators=10, tota
l=   4.1s
[CV]  bootstrap=True, criterion=mse, max_depth=2, max_features=aut
o, min_samples_leaf=4, min_samples_split=12, n_estimators=5, total
```

```
=    2.3s
[CV]  bootstrap=True, criterion=mse, max_depth=2, max_features=aut
o, min_samples_leaf=4, min_samples_split=12, n_estimators=5, total
=    2.3s
[CV] bootstrap=True, criterion=mse, max_depth=2, max_features=auto
, min_samples_leaf=4, min_samples_split=12, n_estimators=9
[CV]  bootstrap=True, criterion=mse, max_depth=2, max_features=aut
o, min_samples_leaf=4, min_samples_split=12, n_estimators=5, total
=    2.1s
[CV]  bootstrap=True, criterion=mse, max_depth=2, max_features=aut
o, min_samples_leaf=4, min_samples_split=12, n_estimators=5, total
=    2.2s
[CV] bootstrap=True, criterion=mse, max_depth=2, max_features=auto
, min_samples_leaf=4, min_samples_split=12, n_estimators=10
[CV]  bootstrap=True, criterion=mse, max_depth=2, max_features=aut
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l=    4.4s
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, min_samples_leaf=4, min_samples_split=12, n_estimators=10
[CV] bootstrap=True, criterion=mse, max_depth=2, max_features=auto
, min_samples_leaf=4, min_samples_split=12, n_estimators=10
[CV]  bootstrap=True, criterion=mse, max_depth=2, max_features=aut
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l=    4.5s
[CV] bootstrap=True, criterion=mse, max_depth=2, max_features=auto
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[CV] bootstrap=True, criterion=mse, max_depth=2, max_features=auto
, min_samples_leaf=5, min_samples_split=8, n_estimators=2
[CV] bootstrap=True, criterion=mse, max_depth=2, max_features=auto
, min_samples_leaf=5, min_samples_split=8, n_estimators=2
[CV]  bootstrap=True, criterion=mse, max_depth=2, max_features=aut
o, min_samples_leaf=4, min_samples_split=12, n_estimators=6, total
=    2.6s
[CV]  bootstrap=True, criterion=mse, max_depth=2, max_features=aut
o, min_samples_leaf=4, min_samples_split=12, n_estimators=6, total
=    2.7s
[CV] bootstrap=True, criterion=mse, max_depth=2, max_features=auto
, min_samples_leaf=5, min_samples_split=8, n_estimators=2
[CV] bootstrap=True, criterion=mse, max_depth=2, max_features=auto
, min_samples_leaf=5, min_samples_split=8, n_estimators=2
[CV]  bootstrap=True, criterion=mse, max_depth=2, max_features=aut
o, min_samples_leaf=4, min_samples_split=12, n_estimators=6, total
=    2.4s
[CV]  bootstrap=True, criterion=mse, max_depth=2, max_features=aut
o, min_samples_leaf=4, min_samples_split=12, n_estimators=6, total
=    2.6s
[CV]  bootstrap=True, criterion=mse, max_depth=2, max_features=aut
o, min_samples_leaf=4, min_samples_split=12, n_estimators=6, total
=    2.5s
[CV] bootstrap=True, criterion=mse, max_depth=2, max_features=auto
, min_samples_leaf=5, min_samples_split=8, n_estimators=2
[CV] bootstrap=True, criterion=mse, max_depth=2, max_features=auto
```

```
, min_samples_leaf=5, min_samples_split=8, n_estimators=3
[CV] bootstrap=True, criterion=mse, max_depth=2, max_features=auto
, min_samples_leaf=5, min_samples_split=8, n_estimators=3
[CV] bootstrap=True, criterion=mse, max_depth=2, max_features=auto
, min_samples_leaf=5, min_samples_split=8, n_estimators=3
[CV] bootstrap=True, criterion=mse, max_depth=2, max_features=auto
, min_samples_leaf=5, min_samples_split=8, n_estimators=3
[CV] bootstrap=True, criterion=mse, max_depth=2, max_features=auto
, min_samples_leaf=5, min_samples_split=8, n_estimators=3
[CV]  bootstrap=True, criterion=mse, max_depth=2, max_features=aut
o, min_samples_leaf=5, min_samples_split=8, n_estimators=2, total=
0.9s
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[CV]  bootstrap=True, criterion=mse, max_depth=2, max_features=aut
o, min_samples_leaf=4, min_samples_split=12, n_estimators=7, total
=   3.1s
[CV]  bootstrap=True, criterion=mse, max_depth=2, max_features=aut
o, min_samples_leaf=4, min_samples_split=12, n_estimators=7, total
=   3.0s
[CV]  bootstrap=True, criterion=mse, max_depth=2, max_features=aut
o, min_samples_leaf=5, min_samples_split=8, n_estimators=2, total=
0.9s
[CV] bootstrap=True, criterion=mse, max_depth=2, max_features=auto
, min_samples_leaf=5, min_samples_split=8, n_estimators=4
[CV]  bootstrap=True, criterion=mse, max_depth=2, max_features=aut
o, min_samples_leaf=4, min_samples_split=12, n_estimators=7, total
=   3.0s
[CV] bootstrap=True, criterion=mse, max_depth=2, max_features=auto
, min_samples_leaf=5, min_samples_split=8, n_estimators=4
[CV]  bootstrap=True, criterion=mse, max_depth=2, max_features=aut
o, min_samples_leaf=5, min_samples_split=8, n_estimators=2, total=
0.9s

[Parallel(n_jobs=-1)]: Done 253 tasks      | elapsed:   29.7s

[CV] bootstrap=True, criterion=mse, max_depth=2, max_features=auto
, min_samples_leaf=5, min_samples_split=8, n_estimators=4
[CV]  bootstrap=True, criterion=mse, max_depth=2, max_features=aut
o, min_samples_leaf=4, min_samples_split=12, n_estimators=7, total
=   3.0s
[CV] bootstrap=True, criterion=mse, max_depth=2, max_features=auto
, min_samples_leaf=5, min_samples_split=8, n_estimators=4
[CV]  bootstrap=True, criterion=mse, max_depth=2, max_features=aut
o, min_samples_leaf=4, min_samples_split=12, n_estimators=7, total
=   3.0s
[CV]  bootstrap=True, criterion=mse, max_depth=2, max_features=aut
o, min_samples_leaf=5, min_samples_split=8, n_estimators=2, total=
1.3s
[CV] bootstrap=True, criterion=mse, max_depth=2, max_features=auto
, min_samples_leaf=5, min_samples_split=8, n_estimators=5
[CV]  bootstrap=True, criterion=mse, max_depth=2, max_features=aut
o, min_samples_leaf=5, min_samples_split=8, n_estimators=2, total=
1.2s
```

```
[CV] bootstrap=True, criterion=mse, max_depth=2, max_features=auto
, min_samples_leaf=5, min_samples_split=8, n_estimators=5
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, min_samples_leaf=5, min_samples_split=8, n_estimators=5
[CV] bootstrap=True, criterion=mse, max_depth=2, max_features=auto
, min_samples_leaf=5, min_samples_split=8, n_estimators=5
[CV]  bootstrap=True, criterion=mse, max_depth=2, max_features=aut
o, min_samples_leaf=5, min_samples_split=8, n_estimators=3, total=
1.3s
[CV]  bootstrap=True, criterion=mse, max_depth=2, max_features=aut
o, min_samples_leaf=4, min_samples_split=12, n_estimators=8, total
=   3.2s
[CV] bootstrap=True, criterion=mse, max_depth=2, max_features=auto
, min_samples_leaf=5, min_samples_split=8, n_estimators=5
[CV]  bootstrap=True, criterion=mse, max_depth=2, max_features=aut
o, min_samples_leaf=4, min_samples_split=12, n_estimators=8, total
=   3.3s
[CV]  bootstrap=True, criterion=mse, max_depth=2, max_features=aut
o, min_samples_leaf=5, min_samples_split=8, n_estimators=3, total=
1.4s
[CV] bootstrap=True, criterion=mse, max_depth=2, max_features=auto
, min_samples_leaf=5, min_samples_split=8, n_estimators=6
[CV] bootstrap=True, criterion=mse, max_depth=2, max_features=auto
, min_samples_leaf=5, min_samples_split=8, n_estimators=6
[CV]  bootstrap=True, criterion=mse, max_depth=2, max_features=aut
o, min_samples_leaf=5, min_samples_split=8, n_estimators=3, total=
1.4s
[CV]  bootstrap=True, criterion=mse, max_depth=2, max_features=aut
o, min_samples_leaf=4, min_samples_split=12, n_estimators=8, total
=   3.3s
[CV]  bootstrap=True, criterion=mse, max_depth=2, max_features=aut
o, min_samples_leaf=4, min_samples_split=12, n_estimators=8, total
=   3.5s
[CV] bootstrap=True, criterion=mse, max_depth=2, max_features=auto
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[CV]  bootstrap=True, criterion=mse, max_depth=2, max_features=aut
o, min_samples_leaf=5, min_samples_split=8, n_estimators=3, total=
1.4s
[CV] bootstrap=True, criterion=mse, max_depth=2, max_features=auto
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, min_samples_leaf=5, min_samples_split=8, n_estimators=6
[CV]  bootstrap=True, criterion=mse, max_depth=2, max_features=aut
o, min_samples_leaf=4, min_samples_split=12, n_estimators=8, total
=   3.5s
[CV] bootstrap=True, criterion=mse, max_depth=2, max_features=auto
, min_samples_leaf=5, min_samples_split=8, n_estimators=7
[CV]  bootstrap=True, criterion=mse, max_depth=2, max_features=aut
o, min_samples_leaf=5, min_samples_split=8, n_estimators=3, total=
1.6s
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, min_samples_leaf=5, min_samples_split=8, n_estimators=7
[CV] bootstrap=True, criterion=mse, max_depth=2, max_features=auto
, min_samples_leaf=5, min_samples_split=8, n_estimators=7
```

```
[CV] bootstrap=True, criterion=mse, max_depth=2, max_features=auto
, min_samples_leaf=5, min_samples_split=8, n_estimators=7
[CV]  bootstrap=True, criterion=mse, max_depth=2, max_features=aut
o, min_samples_leaf=5, min_samples_split=8, n_estimators=4, total=
1.7s
[CV] bootstrap=True, criterion=mse, max_depth=2, max_features=auto
, min_samples_leaf=5, min_samples_split=8, n_estimators=7
[CV]  bootstrap=True, criterion=mse, max_depth=2, max_features=aut
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1.8s
[CV]  bootstrap=True, criterion=mse, max_depth=2, max_features=aut
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=   4.0s
[CV]  bootstrap=True, criterion=mse, max_depth=2, max_features=aut
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=   3.9s
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[CV]  bootstrap=True, criterion=mse, max_depth=2, max_features=aut
o, min_samples_leaf=5, min_samples_split=8, n_estimators=4, total=
1.7s
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2.1s
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, min_samples_leaf=5, min_samples_split=8, n_estimators=8
[CV]  bootstrap=True, criterion=mse, max_depth=2, max_features=aut
o, min_samples_leaf=4, min_samples_split=12, n_estimators=9, total
=   3.8s
[CV] bootstrap=True, criterion=mse, max_depth=2, max_features=auto
, min_samples_leaf=5, min_samples_split=8, n_estimators=8
[CV]  bootstrap=True, criterion=mse, max_depth=2, max_features=aut
o, min_samples_leaf=5, min_samples_split=8, n_estimators=4, total=
1.8s
[CV]  bootstrap=True, criterion=mse, max_depth=2, max_features=aut
o, min_samples_leaf=4, min_samples_split=12, n_estimators=9, total
=   4.0s
[CV]  bootstrap=True, criterion=mse, max_depth=2, max_features=aut
o, min_samples_leaf=4, min_samples_split=12, n_estimators=9, total
=   3.9s
[CV] bootstrap=True, criterion=mse, max_depth=2, max_features=auto
, min_samples_leaf=5, min_samples_split=8, n_estimators=8
[CV] bootstrap=True, criterion=mse, max_depth=2, max_features=auto
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[CV] bootstrap=True, criterion=mse, max_depth=2, max_features=auto
, min_samples_leaf=5, min_samples_split=8, n_estimators=9
[CV]  bootstrap=True, criterion=mse, max_depth=2, max_features=aut
o, min_samples_leaf=4, min_samples_split=12, n_estimators=10, tota
l=   4.1s
[CV]  bootstrap=True, criterion=mse, max_depth=2, max_features=aut
o, min_samples_leaf=5, min_samples_split=8, n_estimators=5, total=
2.1s
[CV] bootstrap=True, criterion=mse, max_depth=2, max_features=auto
, min_samples_leaf=5, min_samples_split=8, n_estimators=9
```

```
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2.2s
[CV] bootstrap=True, criterion=mse, max_depth=2, max_features=auto
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[CV]  bootstrap=True, criterion=mse, max_depth=2, max_features=aut
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2.2s
[CV]  bootstrap=True, criterion=mse, max_depth=2, max_features=aut
o, min_samples_leaf=5, min_samples_split=8, n_estimators=5, total=
2.1s
[CV]  bootstrap=True, criterion=mse, max_depth=2, max_features=aut
o, min_samples_leaf=4, min_samples_split=12, n_estimators=10, tota
l=   4.1s
[CV] bootstrap=True, criterion=mse, max_depth=2, max_features=auto
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[CV] bootstrap=True, criterion=mse, max_depth=2, max_features=auto
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o, min_samples_leaf=4, min_samples_split=12, n_estimators=10, tota
l=   4.4s
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l=   4.3s
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2.5s
[CV]  bootstrap=True, criterion=mse, max_depth=2, max_features=aut
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[CV] bootstrap=True, criterion=mse, max_depth=2, max_features=auto
, min_samples_leaf=5, min_samples_split=10, n_estimators=2
```

```
[CV]  bootstrap=True, criterion=mse, max_depth=2, max_features=aut
o, min_samples_leaf=5, min_samples_split=8, n_estimators=6, total=
2.5s
[CV]  bootstrap=True, criterion=mse, max_depth=2, max_features=aut
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o, min_samples_leaf=5, min_samples_split=8, n_estimators=6, total=
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3.0s
[CV]  bootstrap=True, criterion=mse, max_depth=2, max_features=aut
o, min_samples_leaf=5, min_samples_split=10, n_estimators=2, total
=   0.9s
[CV]  bootstrap=True, criterion=mse, max_depth=2, max_features=aut
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[CV]  bootstrap=True, criterion=mse, max_depth=2, max_features=aut
o, min_samples_leaf=5, min_samples_split=10, n_estimators=2, total
=   1.1s
[CV] bootstrap=True, criterion=mse, max_depth=2, max_features=auto
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[CV]  bootstrap=True, criterion=mse, max_depth=2, max_features=aut
o, min_samples_leaf=5, min_samples_split=8, n_estimators=7, total=
3.1s
[CV]  bootstrap=True, criterion=mse, max_depth=2, max_features=aut
o, min_samples_leaf=5, min_samples_split=10, n_estimators=2, total
=   0.9s
[CV]  bootstrap=True, criterion=mse, max_depth=2, max_features=aut
o, min_samples_leaf=5, min_samples_split=10, n_estimators=2, total
=   1.0s
[CV] bootstrap=True, criterion=mse, max_depth=2, max_features=auto
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[CV]  bootstrap=True, criterion=mse, max_depth=2, max_features=aut
o, min_samples_leaf=5, min_samples_split=10, n_estimators=2, total
=   0.9s
[CV]  bootstrap=True, criterion=mse, max_depth=2, max_features=aut
```

```
o, min_samples_leaf=5, min_samples_split=8, n_estimators=7, total=
3.0s
[CV] bootstrap=True, criterion=mse, max_depth=2, max_features=auto
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3.1s
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o, min_samples_leaf=5, min_samples_split=10, n_estimators=3, total
=   1.3s
[CV] bootstrap=True, criterion=mse, max_depth=2, max_features=auto
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3.2s
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3.4s
[CV] bootstrap=True, criterion=mse, max_depth=2, max_features=auto
, min_samples_leaf=5, min_samples_split=10, n_estimators=5
[CV] bootstrap=True, criterion=mse, max_depth=2, max_features=auto
, min_samples_leaf=5, min_samples_split=10, n_estimators=6
[CV]  bootstrap=True, criterion=mse, max_depth=2, max_features=aut
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=   1.4s
[CV] bootstrap=True, criterion=mse, max_depth=2, max_features=auto
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[CV]  bootstrap=True, criterion=mse, max_depth=2, max_features=aut
o, min_samples_leaf=5, min_samples_split=8, n_estimators=8, total=
3.3s
[CV]  bootstrap=True, criterion=mse, max_depth=2, max_features=aut
o, min_samples_leaf=5, min_samples_split=8, n_estimators=8, total=
3.4s
[CV] bootstrap=True, criterion=mse, max_depth=2, max_features=auto
, min_samples_leaf=5, min_samples_split=10, n_estimators=6
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, min_samples_leaf=5, min_samples_split=10, n_estimators=6
[CV]  bootstrap=True, criterion=mse, max_depth=2, max_features=aut
o, min_samples_leaf=5, min_samples_split=10, n_estimators=3, total
=   1.4s
[CV]  bootstrap=True, criterion=mse, max_depth=2, max_features=aut
o, min_samples_leaf=5, min_samples_split=10, n_estimators=3, total
=   1.6s
[CV] bootstrap=True, criterion=mse, max_depth=2, max_features=auto
, min_samples_leaf=5, min_samples_split=10, n_estimators=6
[CV]  bootstrap=True, criterion=mse, max_depth=2, max_features=aut
o, min_samples_leaf=5, min_samples_split=10, n_estimators=3, total
=   1.6s
```

```
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3.6s
[CV] bootstrap=True, criterion=mse, max_depth=2, max_features=auto
, min_samples_leaf=5, min_samples_split=10, n_estimators=7
[CV] bootstrap=True, criterion=mse, max_depth=2, max_features=auto
, min_samples_leaf=5, min_samples_split=10, n_estimators=7
[CV] bootstrap=True, criterion=mse, max_depth=2, max_features=auto
, min_samples_leaf=5, min_samples_split=10, n_estimators=7
[CV]  bootstrap=True, criterion=mse, max_depth=2, max_features=aut
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=   1.7s
[CV]  bootstrap=True, criterion=mse, max_depth=2, max_features=aut
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=   1.7s
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, min_samples_leaf=5, min_samples_split=10, n_estimators=7
[CV]  bootstrap=True, criterion=mse, max_depth=2, max_features=aut
o, min_samples_leaf=5, min_samples_split=8, n_estimators=9, total=
3.7s
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3.9s
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4.0s
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=   2.0s
[CV]  bootstrap=True, criterion=mse, max_depth=2, max_features=aut
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=   1.8s
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3.7s
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[CV]  bootstrap=True, criterion=mse, max_depth=2, max_features=aut
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=   1.8s
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4.0s
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[CV] bootstrap=True, criterion=mse, max_depth=2, max_features=auto
```

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, min_samples_leaf=5, min_samples_split=10, n_estimators=9
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=   4.0s
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[CV]  bootstrap=True, criterion=mse, max_depth=2, max_features=aut
o, min_samples_leaf=5, min_samples_split=10, n_estimators=5, total
=   2.2s
[CV]  bootstrap=True, criterion=mse, max_depth=2, max_features=aut
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=   2.1s
[CV] bootstrap=True, criterion=mse, max_depth=2, max_features=auto
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=   2.4s
[CV]  bootstrap=True, criterion=mse, max_depth=2, max_features=aut
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=   4.4s
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=   4.4s
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=   2.2s
[CV]  bootstrap=True, criterion=mse, max_depth=2, max_features=aut
o, min_samples_leaf=5, min_samples_split=10, n_estimators=5, total
=   2.4s
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=   4.4s
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[CV]  bootstrap=True, criterion=mse, max_depth=2, max_features=aut
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=   4.6s
[CV] bootstrap=True, criterion=mse, max_depth=2, max_features=auto
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=   2.5s
```

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=   2.7s
[CV] bootstrap=True, criterion=mse, max_depth=2, max_features=auto
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=   2.7s
[CV]  bootstrap=True, criterion=mse, max_depth=2, max_features=aut
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=   2.7s
[CV] bootstrap=True, criterion=mse, max_depth=2, max_features=auto
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=   2.7s
[CV] bootstrap=True, criterion=mse, max_depth=2, max_features=auto
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, min_samples_leaf=5, min_samples_split=12, n_estimators=3
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=   0.9s
[CV]  bootstrap=True, criterion=mse, max_depth=2, max_features=aut
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=   3.0s
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=   3.0s
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=   1.0s
[CV]  bootstrap=True, criterion=mse, max_depth=2, max_features=aut
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=   0.9s
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=   0.9s
```

```
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=   0.9s
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=   3.0s
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=   3.1s
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=   3.3s
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=   1.4s
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=   3.5s
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```

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o, min_samples_leaf=5, min_samples_split=12, n_estimators=3, total
=   1.4s
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=   4.0s
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```

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l=   4.1s
[CV] bootstrap=True, criterion=mse, max_depth=2, max_features=auto
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=   2.1s
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=   2.1s
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[CV]  bootstrap=True, criterion=mse, max_depth=2, max_features=aut
o, min_samples_leaf=5, min_samples_split=12, n_estimators=5, total
=   2.2s
[CV] bootstrap=True, criterion=mse, max_depth=2, max_features=auto
, min_samples_leaf=5, min_samples_split=12, n_estimators=10
```

```
[CV] bootstrap=True, criterion=mse, max_depth=2, max_features=auto
, min_samples_leaf=5, min_samples_split=12, n_estimators=10
[CV] bootstrap=True, criterion=mse, max_depth=2, max_features=auto
, min_samples_leaf=5, min_samples_split=12, n_estimators=10
[CV]  bootstrap=True, criterion=mse, max_depth=2, max_features=aut
o, min_samples_leaf=5, min_samples_split=12, n_estimators=6, total
=   2.3s
[CV] bootstrap=True, criterion=mse, max_depth=2, max_features=sqrt
, min_samples_leaf=3, min_samples_split=8, n_estimators=2
[CV] bootstrap=True, criterion=mse, max_depth=2, max_features=sqrt
, min_samples_leaf=3, min_samples_split=8, n_estimators=2
[CV] bootstrap=True, criterion=mse, max_depth=2, max_features=sqrt
, min_samples_leaf=3, min_samples_split=8, n_estimators=2
[CV]  bootstrap=True, criterion=mse, max_depth=2, max_features=aut
o, min_samples_leaf=5, min_samples_split=12, n_estimators=6, total
=   2.6s
[CV]  bootstrap=True, criterion=mse, max_depth=2, max_features=aut
o, min_samples_leaf=5, min_samples_split=12, n_estimators=6, total
=   2.4s
[CV]  bootstrap=True, criterion=mse, max_depth=2, max_features=sqr
t, min_samples_leaf=3, min_samples_split=8, n_estimators=2, total=
0.2s
[CV] bootstrap=True, criterion=mse, max_depth=2, max_features=sqrt
, min_samples_leaf=3, min_samples_split=8, n_estimators=2
[CV]  bootstrap=True, criterion=mse, max_depth=2, max_features=sqr
t, min_samples_leaf=3, min_samples_split=8, n_estimators=2, total=
0.2s
[CV]  bootstrap=True, criterion=mse, max_depth=2, max_features=aut
o, min_samples_leaf=5, min_samples_split=12, n_estimators=6, total
=   2.6s
[CV] bootstrap=True, criterion=mse, max_depth=2, max_features=sqrt
, min_samples_leaf=3, min_samples_split=8, n_estimators=2
[CV]  bootstrap=True, criterion=mse, max_depth=2, max_features=sqr
t, min_samples_leaf=3, min_samples_split=8, n_estimators=2, total=
0.2s
[CV] bootstrap=True, criterion=mse, max_depth=2, max_features=sqrt
, min_samples_leaf=3, min_samples_split=8, n_estimators=3
[CV]  bootstrap=True, criterion=mse, max_depth=2, max_features=sqr
t, min_samples_leaf=3, min_samples_split=8, n_estimators=2, total=
0.2s
[CV]  bootstrap=True, criterion=mse, max_depth=2, max_features=sqr
t, min_samples_leaf=3, min_samples_split=8, n_estimators=2, total=
0.2s
[CV] bootstrap=True, criterion=mse, max_depth=2, max_features=sqrt
, min_samples_leaf=3, min_samples_split=8, n_estimators=3
[CV] bootstrap=True, criterion=mse, max_depth=2, max_features=sqrt
, min_samples_leaf=3, min_samples_split=8, n_estimators=3
[CV]  bootstrap=True, criterion=mse, max_depth=2, max_features=aut
o, min_samples_leaf=5, min_samples_split=12, n_estimators=6, total
=   2.8s
[CV] bootstrap=True, criterion=mse, max_depth=2, max_features=sqrt
, min_samples_leaf=3, min_samples_split=8, n_estimators=3
[CV]  bootstrap=True, criterion=mse, max_depth=2, max_features=sqr
t, min_samples_leaf=3, min_samples_split=8, n_estimators=3, total=
```

```
0.3s
[CV]  bootstrap=True, criterion=mse, max_depth=2, max_features=sqr
t, min_samples_leaf=3, min_samples_split=8, n_estimators=3, total=
0.2s
[CV] bootstrap=True, criterion=mse, max_depth=2, max_features=sqrt
, min_samples_leaf=3, min_samples_split=8, n_estimators=3
[CV]  bootstrap=True, criterion=mse, max_depth=2, max_features=sqr
t, min_samples_leaf=3, min_samples_split=8, n_estimators=3, total=
0.2s
[CV] bootstrap=True, criterion=mse, max_depth=2, max_features=sqrt
, min_samples_leaf=3, min_samples_split=8, n_estimators=4
[CV]  bootstrap=True, criterion=mse, max_depth=2, max_features=aut
o, min_samples_leaf=5, min_samples_split=12, n_estimators=7, total
=   3.0s
[CV]  bootstrap=True, criterion=mse, max_depth=2, max_features=sqr
t, min_samples_leaf=3, min_samples_split=8, n_estimators=3, total=
0.2s
[CV] bootstrap=True, criterion=mse, max_depth=2, max_features=sqrt
, min_samples_leaf=3, min_samples_split=8, n_estimators=4
[CV]  bootstrap=True, criterion=mse, max_depth=2, max_features=aut
o, min_samples_leaf=5, min_samples_split=12, n_estimators=7, total
=   2.9s
[CV]  bootstrap=True, criterion=mse, max_depth=2, max_features=sqr
t, min_samples_leaf=3, min_samples_split=8, n_estimators=3, total=
0.2s
[CV] bootstrap=True, criterion=mse, max_depth=2, max_features=sqrt
, min_samples_leaf=3, min_samples_split=8, n_estimators=4
[CV]  bootstrap=True, criterion=mse, max_depth=2, max_features=aut
o, min_samples_leaf=5, min_samples_split=12, n_estimators=7, total
=   3.1s
[CV]  bootstrap=True, criterion=mse, max_depth=2, max_features=aut
o, min_samples_leaf=5, min_samples_split=12, n_estimators=7, total
=   2.8s
[CV] bootstrap=True, criterion=mse, max_depth=2, max_features=sqrt
, min_samples_leaf=3, min_samples_split=8, n_estimators=4
[CV]  bootstrap=True, criterion=mse, max_depth=2, max_features=sqr
t, min_samples_leaf=3, min_samples_split=8, n_estimators=4, total=
0.3s
[CV] bootstrap=True, criterion=mse, max_depth=2, max_features=sqrt
, min_samples_leaf=3, min_samples_split=8, n_estimators=4
[CV]  bootstrap=True, criterion=mse, max_depth=2, max_features=aut
o, min_samples_leaf=5, min_samples_split=12, n_estimators=7, total
=   3.1s
[CV]  bootstrap=True, criterion=mse, max_depth=2, max_features=sqr
t, min_samples_leaf=3, min_samples_split=8, n_estimators=4, total=
0.3s
[CV]  bootstrap=True, criterion=mse, max_depth=2, max_features=sqr
t, min_samples_leaf=3, min_samples_split=8, n_estimators=4, total=
0.3s
[CV] bootstrap=True, criterion=mse, max_depth=2, max_features=sqrt
, min_samples_leaf=3, min_samples_split=8, n_estimators=5
[CV] bootstrap=True, criterion=mse, max_depth=2, max_features=sqrt
, min_samples_leaf=3, min_samples_split=8, n_estimators=5
[CV]  bootstrap=True, criterion=mse, max_depth=2, max_features=sqr
```

```
t, min_samples_leaf=3, min_samples_split=8, n_estimators=4, total=
0.3s
[CV] bootstrap=True, criterion=mse, max_depth=2, max_features=sqrt
, min_samples_leaf=3, min_samples_split=8, n_estimators=5
[CV]  bootstrap=True, criterion=mse, max_depth=2, max_features=sqr
t, min_samples_leaf=3, min_samples_split=8, n_estimators=4, total=
0.3s
[CV] bootstrap=True, criterion=mse, max_depth=2, max_features=sqrt
, min_samples_leaf=3, min_samples_split=8, n_estimators=5
[CV]  bootstrap=True, criterion=mse, max_depth=2, max_features=sqr
t, min_samples_leaf=3, min_samples_split=8, n_estimators=5, total=
0.3s
[CV] bootstrap=True, criterion=mse, max_depth=2, max_features=sqrt
, min_samples_leaf=3, min_samples_split=8, n_estimators=5
[CV]  bootstrap=True, criterion=mse, max_depth=2, max_features=sqr
t, min_samples_leaf=3, min_samples_split=8, n_estimators=5, total=
0.3s
[CV]  bootstrap=True, criterion=mse, max_depth=2, max_features=aut
o, min_samples_leaf=5, min_samples_split=12, n_estimators=8, total
=   3.4s
[CV] bootstrap=True, criterion=mse, max_depth=2, max_features=sqrt
, min_samples_leaf=3, min_samples_split=8, n_estimators=6
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o, min_samples_leaf=5, min_samples_split=12, n_estimators=8, total
=   3.4s
[CV] bootstrap=True, criterion=mse, max_depth=2, max_features=sqrt
, min_samples_leaf=3, min_samples_split=8, n_estimators=6
[CV]  bootstrap=True, criterion=mse, max_depth=2, max_features=aut
o, min_samples_leaf=5, min_samples_split=12, n_estimators=8, total
=   3.4s
[CV]  bootstrap=True, criterion=mse, max_depth=2, max_features=sqr
t, min_samples_leaf=3, min_samples_split=8, n_estimators=5, total=
0.3s
[CV]  bootstrap=True, criterion=mse, max_depth=2, max_features=sqr
t, min_samples_leaf=3, min_samples_split=8, n_estimators=5, total=
0.4s
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, min_samples_leaf=3, min_samples_split=8, n_estimators=6
[CV]  bootstrap=True, criterion=mse, max_depth=2, max_features=aut
o, min_samples_leaf=5, min_samples_split=12, n_estimators=8, total
=   3.3s
[CV]  bootstrap=True, criterion=mse, max_depth=2, max_features=sqr
t, min_samples_leaf=3, min_samples_split=8, n_estimators=5, total=
0.3s
[CV] bootstrap=True, criterion=mse, max_depth=2, max_features=sqrt
, min_samples_leaf=3, min_samples_split=8, n_estimators=6
[CV]  bootstrap=True, criterion=mse, max_depth=2, max_features=aut
o, min_samples_leaf=5, min_samples_split=12, n_estimators=8, total
=   3.5s
[CV] bootstrap=True, criterion=mse, max_depth=2, max_features=sqrt
, min_samples_leaf=3, min_samples_split=8, n_estimators=6
[CV]  bootstrap=True, criterion=mse, max_depth=2, max_features=sqr
t, min_samples_leaf=3, min_samples_split=8, n_estimators=6, total=
0.4s
```

```
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, min_samples_leaf=3, min_samples_split=8, n_estimators=7
[CV]  bootstrap=True, criterion=mse, max_depth=2, max_features=sqr
t, min_samples_leaf=3, min_samples_split=8, n_estimators=6, total=
0.4s
[CV] bootstrap=True, criterion=mse, max_depth=2, max_features=sqrt
, min_samples_leaf=3, min_samples_split=8, n_estimators=7
[CV]  bootstrap=True, criterion=mse, max_depth=2, max_features=aut
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=   3.6s
[CV]  bootstrap=True, criterion=mse, max_depth=2, max_features=sqr
t, min_samples_leaf=3, min_samples_split=8, n_estimators=6, total=
0.3s
[CV]  bootstrap=True, criterion=mse, max_depth=2, max_features=sqr
t, min_samples_leaf=3, min_samples_split=8, n_estimators=6, total=
0.4s
[CV] bootstrap=True, criterion=mse, max_depth=2, max_features=sqrt
, min_samples_leaf=3, min_samples_split=8, n_estimators=7
[CV] bootstrap=True, criterion=mse, max_depth=2, max_features=sqrt
, min_samples_leaf=3, min_samples_split=8, n_estimators=7
[CV]  bootstrap=True, criterion=mse, max_depth=2, max_features=aut
o, min_samples_leaf=5, min_samples_split=12, n_estimators=9, total
=   3.6s
[CV]  bootstrap=True, criterion=mse, max_depth=2, max_features=sqr
t, min_samples_leaf=3, min_samples_split=8, n_estimators=6, total=
0.4s
[CV]  bootstrap=True, criterion=mse, max_depth=2, max_features=aut
o, min_samples_leaf=5, min_samples_split=12, n_estimators=9, total
=   3.6s
[CV] bootstrap=True, criterion=mse, max_depth=2, max_features=sqrt
, min_samples_leaf=3, min_samples_split=8, n_estimators=7
[CV]  bootstrap=True, criterion=mse, max_depth=2, max_features=aut
o, min_samples_leaf=5, min_samples_split=12, n_estimators=9, total
=   3.6s
[CV]  bootstrap=True, criterion=mse, max_depth=2, max_features=sqr
t, min_samples_leaf=3, min_samples_split=8, n_estimators=7, total=
0.4s
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, min_samples_leaf=3, min_samples_split=8, n_estimators=8
[CV]  bootstrap=True, criterion=mse, max_depth=2, max_features=sqr
t, min_samples_leaf=3, min_samples_split=8, n_estimators=7, total=
0.5s
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=   3.7s
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t, min_samples_leaf=3, min_samples_split=8, n_estimators=7, total=
0.5s
[CV] bootstrap=True, criterion=mse, max_depth=2, max_features=sqrt
, min_samples_leaf=3, min_samples_split=8, n_estimators=8
```

```
[CV]  bootstrap=True, criterion=mse, max_depth=2, max_features=sqr
t, min_samples_leaf=3, min_samples_split=8, n_estimators=7, total=
0.5s
[CV] bootstrap=True, criterion=mse, max_depth=2, max_features=sqrt
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0.5s
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l=    3.9s
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t, min_samples_leaf=3, min_samples_split=8, n_estimators=8, total=
0.5s
[CV] bootstrap=True, criterion=mse, max_depth=2, max_features=sqrt
, min_samples_leaf=3, min_samples_split=8, n_estimators=9
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o, min_samples_leaf=5, min_samples_split=12, n_estimators=10, tota
l=    3.9s
[CV]  bootstrap=True, criterion=mse, max_depth=2, max_features=sqr
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0.5s
[CV] bootstrap=True, criterion=mse, max_depth=2, max_features=sqrt
, min_samples_leaf=3, min_samples_split=8, n_estimators=9
[CV]  bootstrap=True, criterion=mse, max_depth=2, max_features=aut
o, min_samples_leaf=5, min_samples_split=12, n_estimators=10, tota
l=    3.9s
[CV]  bootstrap=True, criterion=mse, max_depth=2, max_features=aut
o, min_samples_leaf=5, min_samples_split=12, n_estimators=10, tota
l=    3.9s
[CV]  bootstrap=True, criterion=mse, max_depth=2, max_features=sqr
t, min_samples_leaf=3, min_samples_split=8, n_estimators=8, total=
0.5s
[CV] bootstrap=True, criterion=mse, max_depth=2, max_features=sqrt
, min_samples_leaf=3, min_samples_split=8, n_estimators=9
[CV]  bootstrap=True, criterion=mse, max_depth=2, max_features=sqr
t, min_samples_leaf=3, min_samples_split=8, n_estimators=8, total=
0.5s
[CV] bootstrap=True, criterion=mse, max_depth=2, max_features=sqrt
, min_samples_leaf=3, min_samples_split=8, n_estimators=9
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o, min_samples_leaf=5, min_samples_split=12, n_estimators=10, tota
l=    4.0s
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t, min_samples_leaf=3, min_samples_split=8, n_estimators=8, total=
0.5s
[CV] bootstrap=True, criterion=mse, max_depth=2, max_features=sqrt
, min_samples_leaf=3, min_samples_split=8, n_estimators=10
[CV]  bootstrap=True, criterion=mse, max_depth=2, max_features=sqr
t, min_samples_leaf=3, min_samples_split=8, n_estimators=9, total=
0.5s
[CV] bootstrap=True, criterion=mse, max_depth=2, max_features=sqrt
```

```
, min_samples_leaf=3, min_samples_split=8, n_estimators=10
[CV]  bootstrap=True, criterion=mse, max_depth=2, max_features=sqr
t, min_samples_leaf=3, min_samples_split=8, n_estimators=9, total=
0.5s
[CV] bootstrap=True, criterion=mse, max_depth=2, max_features=sqrt
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t, min_samples_leaf=3, min_samples_split=8, n_estimators=9, total=
0.6s
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0.5s
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t, min_samples_leaf=3, min_samples_split=8, n_estimators=10, total
=   0.5s
[CV] bootstrap=True, criterion=mse, max_depth=2, max_features=sqrt
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[CV]  bootstrap=True, criterion=mse, max_depth=2, max_features=sqr
t, min_samples_leaf=3, min_samples_split=8, n_estimators=10, total
=   0.5s
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t, min_samples_leaf=3, min_samples_split=10, n_estimators=2, total
=   0.2s
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t, min_samples_leaf=3, min_samples_split=10, n_estimators=2, total
=   0.2s
[CV]  bootstrap=True, criterion=mse, max_depth=2, max_features=sqr
t, min_samples_leaf=3, min_samples_split=8, n_estimators=10, total
=   0.6s
[CV] bootstrap=True, criterion=mse, max_depth=2, max_features=sqrt
, min_samples_leaf=3, min_samples_split=10, n_estimators=2
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t, min_samples_leaf=3, min_samples_split=10, n_estimators=2, total
=   0.2s
[CV]  bootstrap=True, criterion=mse, max_depth=2, max_features=sqr
t, min_samples_leaf=3, min_samples_split=8, n_estimators=10, total
=   0.6s
[CV]  bootstrap=True, criterion=mse, max_depth=2, max_features=sqr
t, min_samples_leaf=3, min_samples_split=8, n_estimators=10, total
=   0.6s
[CV]  bootstrap=True, criterion=mse, max_depth=2, max_features=sqr
```

```
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=   0.2s
[CV] bootstrap=True, criterion=mse, max_depth=2, max_features=sqrt
, min_samples_leaf=3, min_samples_split=10, n_estimators=3
[CV]  bootstrap=True, criterion=mse, max_depth=2, max_features=sqr
t, min_samples_leaf=3, min_samples_split=10, n_estimators=2, total
=   0.2s
[CV] bootstrap=True, criterion=mse, max_depth=2, max_features=sqrt
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, min_samples_leaf=3, min_samples_split=10, n_estimators=3
[CV]  bootstrap=True, criterion=mse, max_depth=2, max_features=sqr
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=   0.3s
[CV]  bootstrap=True, criterion=mse, max_depth=2, max_features=sqr
t, min_samples_leaf=3, min_samples_split=10, n_estimators=3, total
=   0.2s
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, min_samples_leaf=3, min_samples_split=10, n_estimators=3
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=   0.3s
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t, min_samples_leaf=3, min_samples_split=10, n_estimators=3, total
=   0.2s
[CV] bootstrap=True, criterion=mse, max_depth=2, max_features=sqrt
, min_samples_leaf=3, min_samples_split=10, n_estimators=4
[CV]  bootstrap=True, criterion=mse, max_depth=2, max_features=sqr
t, min_samples_leaf=3, min_samples_split=10, n_estimators=3, total
=   0.2s
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, min_samples_leaf=3, min_samples_split=10, n_estimators=4
[CV]  bootstrap=True, criterion=mse, max_depth=2, max_features=sqr
t, min_samples_leaf=3, min_samples_split=10, n_estimators=4, total
=   0.3s
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, min_samples_leaf=3, min_samples_split=10, n_estimators=4
[CV] bootstrap=True, criterion=mse, max_depth=2, max_features=sqrt
, min_samples_leaf=3, min_samples_split=10, n_estimators=4
[CV]  bootstrap=True, criterion=mse, max_depth=2, max_features=sqr
t, min_samples_leaf=3, min_samples_split=10, n_estimators=4, total
=   0.3s
[CV]  bootstrap=True, criterion=mse, max_depth=2, max_features=sqr
t, min_samples_leaf=3, min_samples_split=10, n_estimators=4, total
=   0.3s
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, min_samples_leaf=3, min_samples_split=10, n_estimators=5
[CV]  bootstrap=True, criterion=mse, max_depth=2, max_features=sqr
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=   0.2s
```

```
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[CV] bootstrap=True, criterion=mse, max_depth=2, max_features=sqrt
, min_samples_leaf=3, min_samples_split=10, n_estimators=5
[CV]  bootstrap=True, criterion=mse, max_depth=2, max_features=sqr
t, min_samples_leaf=3, min_samples_split=10, n_estimators=4, total
=   0.3s
[CV] bootstrap=True, criterion=mse, max_depth=2, max_features=sqrt
, min_samples_leaf=3, min_samples_split=10, n_estimators=5
[CV]  bootstrap=True, criterion=mse, max_depth=2, max_features=sqr
t, min_samples_leaf=3, min_samples_split=10, n_estimators=5, total
=   0.3s
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, min_samples_leaf=3, min_samples_split=10, n_estimators=5
[CV] bootstrap=True, criterion=mse, max_depth=2, max_features=sqrt
, min_samples_leaf=3, min_samples_split=10, n_estimators=6
[CV]  bootstrap=True, criterion=mse, max_depth=2, max_features=sqr
t, min_samples_leaf=3, min_samples_split=10, n_estimators=5, total
=   0.4s
[CV] bootstrap=True, criterion=mse, max_depth=2, max_features=sqrt
, min_samples_leaf=3, min_samples_split=10, n_estimators=6
[CV]  bootstrap=True, criterion=mse, max_depth=2, max_features=sqr
t, min_samples_leaf=3, min_samples_split=10, n_estimators=5, total
=   0.4s
[CV] bootstrap=True, criterion=mse, max_depth=2, max_features=sqrt
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[CV]  bootstrap=True, criterion=mse, max_depth=2, max_features=sqr
t, min_samples_leaf=3, min_samples_split=10, n_estimators=5, total
=   0.4s
[CV] bootstrap=True, criterion=mse, max_depth=2, max_features=sqrt
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[CV]  bootstrap=True, criterion=mse, max_depth=2, max_features=sqr
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=   0.3s
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=   0.3s
[CV] bootstrap=True, criterion=mse, max_depth=2, max_features=sqrt
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t, min_samples_leaf=3, min_samples_split=10, n_estimators=6, total
=   0.4s
[CV]  bootstrap=True, criterion=mse, max_depth=2, max_features=sqr
t, min_samples_leaf=3, min_samples_split=10, n_estimators=6, total
=   0.4s
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t, min_samples_leaf=3, min_samples_split=10, n_estimators=6, total
=   0.4s
[CV] bootstrap=True, criterion=mse, max_depth=2, max_features=sqrt
, min_samples_leaf=3, min_samples_split=10, n_estimators=7
```

```
[CV]  bootstrap=True, criterion=mse, max_depth=2, max_features=sqr
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=    0.4s
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, min_samples_leaf=3, min_samples_split=10, n_estimators=7
[CV]  bootstrap=True, criterion=mse, max_depth=2, max_features=sqr
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=    0.5s
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t, min_samples_leaf=3, min_samples_split=10, n_estimators=7, total
=    0.4s
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=    0.4s
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t, min_samples_leaf=3, min_samples_split=10, n_estimators=7, total
=    0.4s
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t, min_samples_leaf=3, min_samples_split=10, n_estimators=7, total
=    0.4s
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[CV]  bootstrap=True, criterion=mse, max_depth=2, max_features=sqr
t, min_samples_leaf=3, min_samples_split=10, n_estimators=8, total
=    0.5s
[CV] bootstrap=True, criterion=mse, max_depth=2, max_features=sqrt
, min_samples_leaf=3, min_samples_split=10, n_estimators=9
[CV]  bootstrap=True, criterion=mse, max_depth=2, max_features=sqr
t, min_samples_leaf=3, min_samples_split=10, n_estimators=8, total
=    0.5s
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[CV]  bootstrap=True, criterion=mse, max_depth=2, max_features=sqr
t, min_samples_leaf=3, min_samples_split=10, n_estimators=8, total
=    0.5s
[CV] bootstrap=True, criterion=mse, max_depth=2, max_features=sqrt
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t, min_samples_leaf=3, min_samples_split=10, n_estimators=8, total
=    0.4s
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, min_samples_leaf=3, min_samples_split=10, n_estimators=9
[CV] bootstrap=True, criterion=mse, max_depth=2, max_features=sqrt
, min_samples_leaf=3, min_samples_split=10, n_estimators=9
```

```
[CV]  bootstrap=True, criterion=mse, max_depth=2, max_features=sqr
t, min_samples_leaf=3, min_samples_split=10, n_estimators=8, total
=   0.5s
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=   0.6s
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=   0.5s
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t, min_samples_leaf=3, min_samples_split=10, n_estimators=9, total
=   0.5s
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t, min_samples_leaf=3, min_samples_split=10, n_estimators=9, total
=   0.5s
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=   0.5s
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t, min_samples_leaf=3, min_samples_split=10, n_estimators=10, tota
l=   0.6s
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[CV]  bootstrap=True, criterion=mse, max_depth=2, max_features=sqr
t, min_samples_leaf=3, min_samples_split=10, n_estimators=10, tota
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, min_samples_leaf=3, min_samples_split=12, n_estimators=2
[CV]  bootstrap=True, criterion=mse, max_depth=2, max_features=sqr
t, min_samples_leaf=3, min_samples_split=12, n_estimators=2, total
=   0.2s
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t, min_samples_leaf=3, min_samples_split=10, n_estimators=10, tota
l=   0.5s
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=   0.1s
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[CV]  bootstrap=True, criterion=mse, max_depth=2, max_features=sqr
t, min_samples_leaf=3, min_samples_split=12, n_estimators=2, total
=   0.2s
```

```
[CV]  bootstrap=True, criterion=mse, max_depth=2, max_features=sqr
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l=    0.6s
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t, min_samples_leaf=3, min_samples_split=10, n_estimators=10, tota
l=    0.5s
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[CV]  bootstrap=True, criterion=mse, max_depth=2, max_features=sqr
t, min_samples_leaf=3, min_samples_split=12, n_estimators=2, total
=    0.2s
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=    0.2s
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=    0.3s
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=    0.2s
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=    0.2s
[CV]  bootstrap=True, criterion=mse, max_depth=2, max_features=sqr
t, min_samples_leaf=3, min_samples_split=12, n_estimators=3, total
=    0.2s
[CV] bootstrap=True, criterion=mse, max_depth=2, max_features=sqrt
, min_samples_leaf=3, min_samples_split=12, n_estimators=4
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[CV]  bootstrap=True, criterion=mse, max_depth=2, max_features=sqr
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=    0.3s
[CV] bootstrap=True, criterion=mse, max_depth=2, max_features=sqrt
, min_samples_leaf=3, min_samples_split=12, n_estimators=4
[CV]  bootstrap=True, criterion=mse, max_depth=2, max_features=sqr
t, min_samples_leaf=3, min_samples_split=12, n_estimators=4, total
```

```
=    0.3s
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[CV]  bootstrap=True, criterion=mse, max_depth=2, max_features=sqr
t, min_samples_leaf=3, min_samples_split=12, n_estimators=4, total
=    0.3s
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[CV]  bootstrap=True, criterion=mse, max_depth=2, max_features=sqr
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=    0.3s
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=    0.3s
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t, min_samples_leaf=3, min_samples_split=12, n_estimators=5, total
=    0.3s
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=    0.3s
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=    0.3s
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=    0.3s
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=    0.3s
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[CV] bootstrap=True, criterion=mse, max_depth=2, max_features=sqrt
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[CV] bootstrap=True, criterion=mse, max_depth=2, max_features=sqrt
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[CV]  bootstrap=True, criterion=mse, max_depth=2, max_features=sqr
t, min_samples_leaf=3, min_samples_split=12, n_estimators=6, total
=    0.4s
[CV] bootstrap=True, criterion=mse, max_depth=2, max_features=sqrt
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t, min_samples_leaf=3, min_samples_split=12, n_estimators=6, total
=    0.4s
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```

```
, min_samples_leaf=3, min_samples_split=12, n_estimators=7
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=   0.4s
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=   0.5s
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=   0.4s
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=   0.4s
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=   0.4s
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t, min_samples_leaf=3, min_samples_split=12, n_estimators=7, total
=   0.4s
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=   0.4s
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t, min_samples_leaf=3, min_samples_split=12, n_estimators=7, total
=   0.4s
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t, min_samples_leaf=3, min_samples_split=12, n_estimators=8, total
=   0.5s
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[CV]  bootstrap=True, criterion=mse, max_depth=2, max_features=sqr
t, min_samples_leaf=3, min_samples_split=12, n_estimators=8, total
=   0.4s
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=   0.4s
```

```
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, min_samples_leaf=3, min_samples_split=12, n_estimators=9
[CV]  bootstrap=True, criterion=mse, max_depth=2, max_features=sqr
t, min_samples_leaf=3, min_samples_split=12, n_estimators=8, total
=    0.4s
[CV] bootstrap=True, criterion=mse, max_depth=2, max_features=sqrt
, min_samples_leaf=3, min_samples_split=12, n_estimators=9
[CV] bootstrap=True, criterion=mse, max_depth=2, max_features=sqrt
, min_samples_leaf=3, min_samples_split=12, n_estimators=9
[CV]  bootstrap=True, criterion=mse, max_depth=2, max_features=sqr
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=    0.5s
[CV] bootstrap=True, criterion=mse, max_depth=2, max_features=sqrt
, min_samples_leaf=3, min_samples_split=12, n_estimators=10
[CV]  bootstrap=True, criterion=mse, max_depth=2, max_features=sqr
t, min_samples_leaf=3, min_samples_split=12, n_estimators=9, total
=    0.5s
[CV] bootstrap=True, criterion=mse, max_depth=2, max_features=sqrt
, min_samples_leaf=3, min_samples_split=12, n_estimators=10
[CV]  bootstrap=True, criterion=mse, max_depth=2, max_features=sqr
t, min_samples_leaf=3, min_samples_split=12, n_estimators=9, total
=    0.5s
[CV] bootstrap=True, criterion=mse, max_depth=2, max_features=sqrt
, min_samples_leaf=3, min_samples_split=12, n_estimators=10
[CV]  bootstrap=True, criterion=mse, max_depth=2, max_features=sqr
t, min_samples_leaf=3, min_samples_split=12, n_estimators=9, total
=    0.5s
[CV] bootstrap=True, criterion=mse, max_depth=2, max_features=sqrt
, min_samples_leaf=3, min_samples_split=12, n_estimators=10
[CV]  bootstrap=True, criterion=mse, max_depth=2, max_features=sqr
t, min_samples_leaf=3, min_samples_split=12, n_estimators=9, total
=    0.5s
[CV] bootstrap=True, criterion=mse, max_depth=2, max_features=sqrt
, min_samples_leaf=3, min_samples_split=12, n_estimators=10
[CV]  bootstrap=True, criterion=mse, max_depth=2, max_features=sqr
t, min_samples_leaf=3, min_samples_split=12, n_estimators=9, total
=    0.5s
[CV] bootstrap=True, criterion=mse, max_depth=2, max_features=sqrt
, min_samples_leaf=4, min_samples_split=8, n_estimators=2
[CV] bootstrap=True, criterion=mse, max_depth=2, max_features=sqrt
, min_samples_leaf=4, min_samples_split=8, n_estimators=2
[CV]  bootstrap=True, criterion=mse, max_depth=2, max_features=sqr
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0.1s
[CV]  bootstrap=True, criterion=mse, max_depth=2, max_features=sqr
t, min_samples_leaf=3, min_samples_split=12, n_estimators=10, tota
l=    0.6s
[CV] bootstrap=True, criterion=mse, max_depth=2, max_features=sqrt
, min_samples_leaf=4, min_samples_split=8, n_estimators=2
[CV]  bootstrap=True, criterion=mse, max_depth=2, max_features=sqr
t, min_samples_leaf=3, min_samples_split=12, n_estimators=10, tota
l=    0.6s
[CV]  bootstrap=True, criterion=mse, max_depth=2, max_features=sqr
t, min_samples_leaf=4, min_samples_split=8, n_estimators=2, total=
```

```
0.2s
[CV] bootstrap=True, criterion=mse, max_depth=2, max_features=sqrt
, min_samples_leaf=4, min_samples_split=8, n_estimators=2
[CV]  bootstrap=True, criterion=mse, max_depth=2, max_features=sqr
t, min_samples_leaf=3, min_samples_split=12, n_estimators=10, tota
l=   0.6s

[Parallel(n_jobs=-1)]: Done 536 tasks      | elapsed:   57.0s

[CV]  bootstrap=True, criterion=mse, max_depth=2, max_features=sqr
t, min_samples_leaf=4, min_samples_split=8, n_estimators=2, total=
0.2s
[CV] bootstrap=True, criterion=mse, max_depth=2, max_features=sqrt
, min_samples_leaf=4, min_samples_split=8, n_estimators=2
[CV]  bootstrap=True, criterion=mse, max_depth=2, max_features=sqr
t, min_samples_leaf=3, min_samples_split=12, n_estimators=10, tota
l=   0.6s
[CV]  bootstrap=True, criterion=mse, max_depth=2, max_features=sqr
t, min_samples_leaf=4, min_samples_split=8, n_estimators=2, total=
0.2s
[CV] bootstrap=True, criterion=mse, max_depth=2, max_features=sqrt
, min_samples_leaf=4, min_samples_split=8, n_estimators=3
[CV]  bootstrap=True, criterion=mse, max_depth=2, max_features=sqr
t, min_samples_leaf=3, min_samples_split=12, n_estimators=10, tota
l=   0.6s
[CV]  bootstrap=True, criterion=mse, max_depth=2, max_features=sqr
t, min_samples_leaf=4, min_samples_split=8, n_estimators=2, total=
0.2s
[CV] bootstrap=True, criterion=mse, max_depth=2, max_features=sqrt
, min_samples_leaf=4, min_samples_split=8, n_estimators=3
[CV] bootstrap=True, criterion=mse, max_depth=2, max_features=sqrt
, min_samples_leaf=4, min_samples_split=8, n_estimators=3
[CV]  bootstrap=True, criterion=mse, max_depth=2, max_features=sqr
t, min_samples_leaf=4, min_samples_split=8, n_estimators=3, total=
0.2s
[CV] bootstrap=True, criterion=mse, max_depth=2, max_features=sqrt
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[CV]  bootstrap=True, criterion=mse, max_depth=2, max_features=sqr
t, min_samples_leaf=4, min_samples_split=8, n_estimators=3, total=
0.2s
[CV] bootstrap=True, criterion=mse, max_depth=2, max_features=sqrt
, min_samples_leaf=4, min_samples_split=8, n_estimators=3
[CV]  bootstrap=True, criterion=mse, max_depth=2, max_features=sqr
t, min_samples_leaf=4, min_samples_split=8, n_estimators=3, total=
0.2s
[CV] bootstrap=True, criterion=mse, max_depth=2, max_features=sqrt
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[CV]  bootstrap=True, criterion=mse, max_depth=2, max_features=sqr
t, min_samples_leaf=4, min_samples_split=8, n_estimators=3, total=
0.2s
[CV]  bootstrap=True, criterion=mse, max_depth=2, max_features=sqr
t, min_samples_leaf=4, min_samples_split=8, n_estimators=3, total=
0.2s
[CV] bootstrap=True, criterion=mse, max_depth=2, max_features=sqrt
```

```
, min_samples_leaf=4, min_samples_split=8, n_estimators=4
[CV] bootstrap=True, criterion=mse, max_depth=2, max_features=sqrt
, min_samples_leaf=4, min_samples_split=8, n_estimators=4
[CV]  bootstrap=True, criterion=mse, max_depth=2, max_features=sqr
t, min_samples_leaf=4, min_samples_split=8, n_estimators=4, total=
0.3s
[CV] bootstrap=True, criterion=mse, max_depth=2, max_features=sqrt
, min_samples_leaf=4, min_samples_split=8, n_estimators=4
[CV]  bootstrap=True, criterion=mse, max_depth=2, max_features=sqr
t, min_samples_leaf=4, min_samples_split=8, n_estimators=4, total=
0.2s
[CV] bootstrap=True, criterion=mse, max_depth=2, max_features=sqrt
, min_samples_leaf=4, min_samples_split=8, n_estimators=4
[CV]  bootstrap=True, criterion=mse, max_depth=2, max_features=sqr
t, min_samples_leaf=4, min_samples_split=8, n_estimators=4, total=
0.3s
[CV] bootstrap=True, criterion=mse, max_depth=2, max_features=sqrt
, min_samples_leaf=4, min_samples_split=8, n_estimators=5
[CV]  bootstrap=True, criterion=mse, max_depth=2, max_features=sqr
t, min_samples_leaf=4, min_samples_split=8, n_estimators=4, total=
0.3s
[CV] bootstrap=True, criterion=mse, max_depth=2, max_features=sqrt
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[CV]  bootstrap=True, criterion=mse, max_depth=2, max_features=sqr
t, min_samples_leaf=4, min_samples_split=8, n_estimators=4, total=
0.3s
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, min_samples_leaf=4, min_samples_split=8, n_estimators=5
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t, min_samples_leaf=4, min_samples_split=8, n_estimators=5, total=
0.3s
[CV] bootstrap=True, criterion=mse, max_depth=2, max_features=sqrt
, min_samples_leaf=4, min_samples_split=8, n_estimators=5
[CV] bootstrap=True, criterion=mse, max_depth=2, max_features=sqrt
, min_samples_leaf=4, min_samples_split=8, n_estimators=6
[CV]  bootstrap=True, criterion=mse, max_depth=2, max_features=sqr
t, min_samples_leaf=4, min_samples_split=8, n_estimators=5, total=
0.4s
[CV]  bootstrap=True, criterion=mse, max_depth=2, max_features=sqr
t, min_samples_leaf=4, min_samples_split=8, n_estimators=5, total=
0.3s
[CV] bootstrap=True, criterion=mse, max_depth=2, max_features=sqrt
, min_samples_leaf=4, min_samples_split=8, n_estimators=6
[CV]  bootstrap=True, criterion=mse, max_depth=2, max_features=sqr
t, min_samples_leaf=4, min_samples_split=8, n_estimators=5, total=
0.3s
[CV] bootstrap=True, criterion=mse, max_depth=2, max_features=sqrt
, min_samples_leaf=4, min_samples_split=8, n_estimators=6
[CV] bootstrap=True, criterion=mse, max_depth=2, max_features=sqrt
, min_samples_leaf=4, min_samples_split=8, n_estimators=6
[CV]  bootstrap=True, criterion=mse, max_depth=2, max_features=sqr
t, min_samples_leaf=4, min_samples_split=8, n_estimators=5, total=
```

```
0.3s
[CV] bootstrap=True, criterion=mse, max_depth=2, max_features=sqrt
, min_samples_leaf=4, min_samples_split=8, n_estimators=6
[CV]  bootstrap=True, criterion=mse, max_depth=2, max_features=sqr
t, min_samples_leaf=4, min_samples_split=8, n_estimators=6, total=
0.4s
[CV] bootstrap=True, criterion=mse, max_depth=2, max_features=sqrt
, min_samples_leaf=4, min_samples_split=8, n_estimators=7
[CV]  bootstrap=True, criterion=mse, max_depth=2, max_features=sqr
t, min_samples_leaf=4, min_samples_split=8, n_estimators=6, total=
0.4s
[CV] bootstrap=True, criterion=mse, max_depth=2, max_features=sqrt
, min_samples_leaf=4, min_samples_split=8, n_estimators=7
[CV]  bootstrap=True, criterion=mse, max_depth=2, max_features=sqr
t, min_samples_leaf=4, min_samples_split=8, n_estimators=6, total=
0.4s
[CV]  bootstrap=True, criterion=mse, max_depth=2, max_features=sqr
t, min_samples_leaf=4, min_samples_split=8, n_estimators=6, total=
0.3s
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, min_samples_leaf=4, min_samples_split=8, n_estimators=7
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t, min_samples_leaf=4, min_samples_split=8, n_estimators=6, total=
0.4s
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, min_samples_leaf=4, min_samples_split=8, n_estimators=7
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0.5s
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0.4s
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0.4s
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0.4s
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, min_samples_leaf=4, min_samples_split=8, n_estimators=8
[CV]  bootstrap=True, criterion=mse, max_depth=2, max_features=sqr
t, min_samples_leaf=4, min_samples_split=8, n_estimators=7, total=
0.4s
[CV] bootstrap=True, criterion=mse, max_depth=2, max_features=sqrt
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[CV]  bootstrap=True, criterion=mse, max_depth=2, max_features=sqr
```

```
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[CV]  bootstrap=True, criterion=mse, max_depth=2, max_features=sqr
t, min_samples_leaf=4, min_samples_split=8, n_estimators=8, total=
0.5s
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, min_samples_leaf=4, min_samples_split=8, n_estimators=9
[CV]  bootstrap=True, criterion=mse, max_depth=2, max_features=sqr
t, min_samples_leaf=4, min_samples_split=8, n_estimators=8, total=
0.5s
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0.4s
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0.5s
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0.5s
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0.5s
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t, min_samples_leaf=4, min_samples_split=8, n_estimators=9, total=
0.5s
[CV] bootstrap=True, criterion=mse, max_depth=2, max_features=sqrt
, min_samples_leaf=4, min_samples_split=8, n_estimators=10
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t, min_samples_leaf=4, min_samples_split=8, n_estimators=9, total=
0.5s
[CV] bootstrap=True, criterion=mse, max_depth=2, max_features=sqrt
, min_samples_leaf=4, min_samples_split=8, n_estimators=10
[CV] bootstrap=True, criterion=mse, max_depth=2, max_features=sqrt
, min_samples_leaf=4, min_samples_split=8, n_estimators=10
[CV]  bootstrap=True, criterion=mse, max_depth=2, max_features=sqr
t, min_samples_leaf=4, min_samples_split=8, n_estimators=9, total=
0.5s
[CV] bootstrap=True, criterion=mse, max_depth=2, max_features=sqrt
, min_samples_leaf=4, min_samples_split=10, n_estimators=2
[CV] bootstrap=True, criterion=mse, max_depth=2, max_features=sqrt
, min_samples_leaf=4, min_samples_split=10, n_estimators=2
[CV]  bootstrap=True, criterion=mse, max_depth=2, max_features=sqr
```

t, min_samples_leaf=4, min_samples_split=8, n_estimators=10, total
=   0.6s
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[CV] bootstrap=True, criterion=mse, max_depth=2, max_features=sqr
t, min_samples_leaf=4, min_samples_split=8, n_estimators=10, total
=   0.5s
[CV] bootstrap=True, criterion=mse, max_depth=2, max_features=sqr
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=   0.2s
[CV] bootstrap=True, criterion=mse, max_depth=2, max_features=sqr
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=   0.5s
[CV] bootstrap=True, criterion=mse, max_depth=2, max_features=sqr
t, min_samples_leaf=4, min_samples_split=10, n_estimators=2, total
=   0.2s
[CV] bootstrap=True, criterion=mse, max_depth=2, max_features=sqrt
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[CV] bootstrap=True, criterion=mse, max_depth=2, max_features=sqr
t, min_samples_leaf=4, min_samples_split=10, n_estimators=2, total
=   0.2s
[CV] bootstrap=True, criterion=mse, max_depth=2, max_features=sqr
t, min_samples_leaf=4, min_samples_split=8, n_estimators=10, total
=   0.6s
[CV] bootstrap=True, criterion=mse, max_depth=2, max_features=sqrt
, min_samples_leaf=4, min_samples_split=10, n_estimators=2
[CV] bootstrap=True, criterion=mse, max_depth=2, max_features=sqr
t, min_samples_leaf=4, min_samples_split=8, n_estimators=10, total
=   0.6s
[CV] bootstrap=True, criterion=mse, max_depth=2, max_features=sqr
t, min_samples_leaf=4, min_samples_split=10, n_estimators=2, total
=   0.2s
[CV] bootstrap=True, criterion=mse, max_depth=2, max_features=sqrt
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t, min_samples_leaf=4, min_samples_split=10, n_estimators=2, total
=   0.2s
[CV] bootstrap=True, criterion=mse, max_depth=2, max_features=sqrt
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t, min_samples_leaf=4, min_samples_split=10, n_estimators=3, total
=   0.2s
[CV] bootstrap=True, criterion=mse, max_depth=2, max_features=sqrt
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t, min_samples_leaf=4, min_samples_split=10, n_estimators=3, total
=   0.2s
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t, min_samples_leaf=4, min_samples_split=10, n_estimators=3, total
=   0.2s

```
[CV] bootstrap=True, criterion=mse, max_depth=2, max_features=sqrt
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t, min_samples_leaf=4, min_samples_split=10, n_estimators=3, total
=   0.2s
[CV] bootstrap=True, criterion=mse, max_depth=2, max_features=sqrt
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=   0.2s
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=   0.3s
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[CV]  bootstrap=True, criterion=mse, max_depth=2, max_features=sqr
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=   0.3s
[CV] bootstrap=True, criterion=mse, max_depth=2, max_features=sqrt
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=   0.3s
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t, min_samples_leaf=4, min_samples_split=10, n_estimators=4, total
=   0.3s
[CV] bootstrap=True, criterion=mse, max_depth=2, max_features=sqrt
, min_samples_leaf=4, min_samples_split=10, n_estimators=5
[CV] bootstrap=True, criterion=mse, max_depth=2, max_features=sqrt
, min_samples_leaf=4, min_samples_split=10, n_estimators=5
[CV]  bootstrap=True, criterion=mse, max_depth=2, max_features=sqr
t, min_samples_leaf=4, min_samples_split=10, n_estimators=4, total
=   0.4s
[CV]  bootstrap=True, criterion=mse, max_depth=2, max_features=sqr
t, min_samples_leaf=4, min_samples_split=10, n_estimators=5, total
=   0.3s
[CV] bootstrap=True, criterion=mse, max_depth=2, max_features=sqrt
, min_samples_leaf=4, min_samples_split=10, n_estimators=5
[CV]  bootstrap=True, criterion=mse, max_depth=2, max_features=sqr
t, min_samples_leaf=4, min_samples_split=10, n_estimators=5, total
=   0.3s
[CV] bootstrap=True, criterion=mse, max_depth=2, max_features=sqrt
, min_samples_leaf=4, min_samples_split=10, n_estimators=6
[CV]  bootstrap=True, criterion=mse, max_depth=2, max_features=sqr
t, min_samples_leaf=4, min_samples_split=10, n_estimators=5, total
=   0.3s
[CV] bootstrap=True, criterion=mse, max_depth=2, max_features=sqrt
, min_samples_leaf=4, min_samples_split=10, n_estimators=6
```

```
[CV]  bootstrap=True, criterion=mse, max_depth=2, max_features=sqr
t, min_samples_leaf=4, min_samples_split=10, n_estimators=5, total
=   0.3s
[CV] bootstrap=True, criterion=mse, max_depth=2, max_features=sqrt
, min_samples_leaf=4, min_samples_split=10, n_estimators=6
[CV]  bootstrap=True, criterion=mse, max_depth=2, max_features=sqr
t, min_samples_leaf=4, min_samples_split=10, n_estimators=5, total
=   0.3s
[CV] bootstrap=True, criterion=mse, max_depth=2, max_features=sqrt
, min_samples_leaf=4, min_samples_split=10, n_estimators=6
[CV]  bootstrap=True, criterion=mse, max_depth=2, max_features=sqr
t, min_samples_leaf=4, min_samples_split=10, n_estimators=6, total
=   0.3s
[CV]  bootstrap=True, criterion=mse, max_depth=2, max_features=sqr
t, min_samples_leaf=4, min_samples_split=10, n_estimators=6, total
=   0.5s
[CV] bootstrap=True, criterion=mse, max_depth=2, max_features=sqrt
, min_samples_leaf=4, min_samples_split=10, n_estimators=6
[CV]  bootstrap=True, criterion=mse, max_depth=2, max_features=sqr
t, min_samples_leaf=4, min_samples_split=10, n_estimators=6, total
=   0.4s
[CV] bootstrap=True, criterion=mse, max_depth=2, max_features=sqrt
, min_samples_leaf=4, min_samples_split=10, n_estimators=7
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, min_samples_leaf=4, min_samples_split=10, n_estimators=7
[CV]  bootstrap=True, criterion=mse, max_depth=2, max_features=sqr
t, min_samples_leaf=4, min_samples_split=10, n_estimators=6, total
=   0.4s
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, min_samples_leaf=4, min_samples_split=10, n_estimators=7
[CV]  bootstrap=True, criterion=mse, max_depth=2, max_features=sqr
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=   0.3s
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[CV] bootstrap=True, criterion=mse, max_depth=2, max_features=sqrt
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t, min_samples_leaf=4, min_samples_split=10, n_estimators=7, total
=   0.5s
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, min_samples_leaf=4, min_samples_split=10, n_estimators=8
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t, min_samples_leaf=4, min_samples_split=10, n_estimators=7, total
=   0.4s
[CV] bootstrap=True, criterion=mse, max_depth=2, max_features=sqrt
, min_samples_leaf=4, min_samples_split=10, n_estimators=8
[CV]  bootstrap=True, criterion=mse, max_depth=2, max_features=sqr
t, min_samples_leaf=4, min_samples_split=10, n_estimators=7, total
=   0.4s
[CV]  bootstrap=True, criterion=mse, max_depth=2, max_features=sqr
t, min_samples_leaf=4, min_samples_split=10, n_estimators=7, total
```

```
=     0.5s
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t, min_samples_leaf=4, min_samples_split=10, n_estimators=7, total
=     0.4s
[CV] bootstrap=True, criterion=mse, max_depth=2, max_features=sqrt
, min_samples_leaf=4, min_samples_split=10, n_estimators=8
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, min_samples_leaf=4, min_samples_split=10, n_estimators=9
[CV]  bootstrap=True, criterion=mse, max_depth=2, max_features=sqr
t, min_samples_leaf=4, min_samples_split=10, n_estimators=8, total
=     0.5s
[CV] bootstrap=True, criterion=mse, max_depth=2, max_features=sqrt
, min_samples_leaf=4, min_samples_split=10, n_estimators=9
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t, min_samples_leaf=4, min_samples_split=10, n_estimators=8, total
=     0.5s
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t, min_samples_leaf=4, min_samples_split=10, n_estimators=8, total
=     0.4s
[CV] bootstrap=True, criterion=mse, max_depth=2, max_features=sqrt
, min_samples_leaf=4, min_samples_split=10, n_estimators=9
[CV]  bootstrap=True, criterion=mse, max_depth=2, max_features=sqr
t, min_samples_leaf=4, min_samples_split=10, n_estimators=8, total
=     0.5s
[CV] bootstrap=True, criterion=mse, max_depth=2, max_features=sqrt
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t, min_samples_leaf=4, min_samples_split=10, n_estimators=8, total
=     0.5s
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t, min_samples_leaf=4, min_samples_split=10, n_estimators=9, total
=     0.5s
[CV]  bootstrap=True, criterion=mse, max_depth=2, max_features=sqr
t, min_samples_leaf=4, min_samples_split=10, n_estimators=9, total
=     0.5s
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=     0.5s
[CV] bootstrap=True, criterion=mse, max_depth=2, max_features=sqrt
, min_samples_leaf=4, min_samples_split=10, n_estimators=10
[CV]  bootstrap=True, criterion=mse, max_depth=2, max_features=sqr
t, min_samples_leaf=4, min_samples_split=10, n_estimators=9, total
=     0.5s
[CV] bootstrap=True, criterion=mse, max_depth=2, max_features=sqrt
, min_samples_leaf=4, min_samples_split=10, n_estimators=10
[CV] bootstrap=True, criterion=mse, max_depth=2, max_features=sqrt
```

, min_samples_leaf=4, min_samples_split=10, n_estimators=10
[CV] bootstrap=True, criterion=mse, max_depth=2, max_features=sqr
t, min_samples_leaf=4, min_samples_split=10, n_estimators=9, total
=   0.5s
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, min_samples_leaf=4, min_samples_split=12, n_estimators=2
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, min_samples_leaf=4, min_samples_split=12, n_estimators=2
[CV] bootstrap=True, criterion=mse, max_depth=2, max_features=sqr
t, min_samples_leaf=4, min_samples_split=10, n_estimators=10, tota
l=   0.6s
[CV] bootstrap=True, criterion=mse, max_depth=2, max_features=sqr
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=   0.2s
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[CV] bootstrap=True, criterion=mse, max_depth=2, max_features=sqr
t, min_samples_leaf=4, min_samples_split=10, n_estimators=10, tota
l=   0.5s
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, min_samples_leaf=4, min_samples_split=12, n_estimators=2
[CV] bootstrap=True, criterion=mse, max_depth=2, max_features=sqr
t, min_samples_leaf=4, min_samples_split=12, n_estimators=2, total
=   0.2s
[CV] bootstrap=True, criterion=mse, max_depth=2, max_features=sqr
t, min_samples_leaf=4, min_samples_split=10, n_estimators=10, tota
l=   0.5s
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[CV] bootstrap=True, criterion=mse, max_depth=2, max_features=sqr
t, min_samples_leaf=4, min_samples_split=10, n_estimators=10, tota
l=   0.6s
[CV] bootstrap=True, criterion=mse, max_depth=2, max_features=sqr
t, min_samples_leaf=4, min_samples_split=12, n_estimators=2, total
=   0.2s
[CV] bootstrap=True, criterion=mse, max_depth=2, max_features=sqrt
, min_samples_leaf=4, min_samples_split=12, n_estimators=3
[CV] bootstrap=True, criterion=mse, max_depth=2, max_features=sqr
t, min_samples_leaf=4, min_samples_split=12, n_estimators=2, total
=   0.2s
[CV] bootstrap=True, criterion=mse, max_depth=2, max_features=sqr
t, min_samples_leaf=4, min_samples_split=10, n_estimators=10, tota
l=   0.6s
[CV] bootstrap=True, criterion=mse, max_depth=2, max_features=sqrt
, min_samples_leaf=4, min_samples_split=12, n_estimators=3
[CV] bootstrap=True, criterion=mse, max_depth=2, max_features=sqr
t, min_samples_leaf=4, min_samples_split=12, n_estimators=2, total
=   0.2s
[CV] bootstrap=True, criterion=mse, max_depth=2, max_features=sqrt
, min_samples_leaf=4, min_samples_split=12, n_estimators=3
[CV] bootstrap=True, criterion=mse, max_depth=2, max_features=sqr
t, min_samples_leaf=4, min_samples_split=12, n_estimators=3, total
=   0.2s
[CV] bootstrap=True, criterion=mse, max_depth=2, max_features=sqrt

```
, min_samples_leaf=4, min_samples_split=12, n_estimators=3
[CV]  bootstrap=True, criterion=mse, max_depth=2, max_features=sqr
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=   0.2s
[CV] bootstrap=True, criterion=mse, max_depth=2, max_features=sqrt
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[CV]  bootstrap=True, criterion=mse, max_depth=2, max_features=sqr
t, min_samples_leaf=4, min_samples_split=12, n_estimators=3, total
=   0.2s
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=   0.2s
[CV] bootstrap=True, criterion=mse, max_depth=2, max_features=sqrt
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t, min_samples_leaf=4, min_samples_split=12, n_estimators=3, total
=   0.2s
[CV] bootstrap=True, criterion=mse, max_depth=2, max_features=sqrt
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t, min_samples_leaf=4, min_samples_split=12, n_estimators=4, total
=   0.2s
[CV] bootstrap=True, criterion=mse, max_depth=2, max_features=sqrt
, min_samples_leaf=4, min_samples_split=12, n_estimators=4
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, min_samples_leaf=4, min_samples_split=12, n_estimators=4
[CV]  bootstrap=True, criterion=mse, max_depth=2, max_features=sqr
t, min_samples_leaf=4, min_samples_split=12, n_estimators=4, total
=   0.3s
[CV] bootstrap=True, criterion=mse, max_depth=2, max_features=sqrt
, min_samples_leaf=4, min_samples_split=12, n_estimators=5
[CV]  bootstrap=True, criterion=mse, max_depth=2, max_features=sqr
t, min_samples_leaf=4, min_samples_split=12, n_estimators=4, total
=   0.3s
[CV]  bootstrap=True, criterion=mse, max_depth=2, max_features=sqr
t, min_samples_leaf=4, min_samples_split=12, n_estimators=4, total
=   0.3s
[CV] bootstrap=True, criterion=mse, max_depth=2, max_features=sqrt
, min_samples_leaf=4, min_samples_split=12, n_estimators=5
[CV] bootstrap=True, criterion=mse, max_depth=2, max_features=sqrt
, min_samples_leaf=4, min_samples_split=12, n_estimators=5
[CV]  bootstrap=True, criterion=mse, max_depth=2, max_features=sqr
t, min_samples_leaf=4, min_samples_split=12, n_estimators=4, total
=   0.3s
[CV] bootstrap=True, criterion=mse, max_depth=2, max_features=sqrt
, min_samples_leaf=4, min_samples_split=12, n_estimators=5
[CV] bootstrap=True, criterion=mse, max_depth=2, max_features=sqrt
, min_samples_leaf=4, min_samples_split=12, n_estimators=5
[CV]  bootstrap=True, criterion=mse, max_depth=2, max_features=sqr
t, min_samples_leaf=4, min_samples_split=12, n_estimators=5, total
=   0.4s
[CV] bootstrap=True, criterion=mse, max_depth=2, max_features=sqrt
```

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=   0.4s
[CV]  bootstrap=True, criterion=mse, max_depth=2, max_features=sqr
t, min_samples_leaf=4, min_samples_split=12, n_estimators=5, total
=   0.3s
[CV] bootstrap=True, criterion=mse, max_depth=2, max_features=sqrt
, min_samples_leaf=4, min_samples_split=12, n_estimators=6
[CV]  bootstrap=True, criterion=mse, max_depth=2, max_features=sqr
t, min_samples_leaf=4, min_samples_split=12, n_estimators=5, total
=   0.4s
[CV] bootstrap=True, criterion=mse, max_depth=2, max_features=sqrt
, min_samples_leaf=4, min_samples_split=12, n_estimators=6
[CV]  bootstrap=True, criterion=mse, max_depth=2, max_features=sqr
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=   0.4s
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, min_samples_leaf=4, min_samples_split=12, n_estimators=6
[CV]  bootstrap=True, criterion=mse, max_depth=2, max_features=sqr
t, min_samples_leaf=4, min_samples_split=12, n_estimators=6, total
=   0.4s
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, min_samples_leaf=4, min_samples_split=12, n_estimators=6
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t, min_samples_leaf=4, min_samples_split=12, n_estimators=6, total
=   0.4s
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[CV] bootstrap=True, criterion=mse, max_depth=2, max_features=sqrt
, min_samples_leaf=4, min_samples_split=12, n_estimators=7
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t, min_samples_leaf=4, min_samples_split=12, n_estimators=6, total
=   0.4s
[CV] bootstrap=True, criterion=mse, max_depth=2, max_features=sqrt
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[CV]  bootstrap=True, criterion=mse, max_depth=2, max_features=sqr
t, min_samples_leaf=4, min_samples_split=12, n_estimators=6, total
=   0.4s
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[CV]  bootstrap=True, criterion=mse, max_depth=2, max_features=sqr
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=   0.4s
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=   0.4s
[CV] bootstrap=True, criterion=mse, max_depth=2, max_features=sqrt
, min_samples_leaf=4, min_samples_split=12, n_estimators=8
[CV] bootstrap=True, criterion=mse, max_depth=2, max_features=sqrt
, min_samples_leaf=4, min_samples_split=12, n_estimators=8
[CV]  bootstrap=True, criterion=mse, max_depth=2, max_features=sqr
```

```
t, min_samples_leaf=4, min_samples_split=12, n_estimators=7, total
=   0.4s
[CV]  bootstrap=True, criterion=mse, max_depth=2, max_features=sqr
t, min_samples_leaf=4, min_samples_split=12, n_estimators=7, total
=   0.4s
[CV]  bootstrap=True, criterion=mse, max_depth=2, max_features=sqr
t, min_samples_leaf=4, min_samples_split=12, n_estimators=7, total
=   0.3s
[CV] bootstrap=True, criterion=mse, max_depth=2, max_features=sqrt
, min_samples_leaf=4, min_samples_split=12, n_estimators=8
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[CV] bootstrap=True, criterion=mse, max_depth=2, max_features=sqrt
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[CV]  bootstrap=True, criterion=mse, max_depth=2, max_features=sqr
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=   0.5s
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[CV]  bootstrap=True, criterion=mse, max_depth=2, max_features=sqr
t, min_samples_leaf=4, min_samples_split=12, n_estimators=8, total
=   0.5s
[CV]  bootstrap=True, criterion=mse, max_depth=2, max_features=sqr
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=   0.4s
[CV] bootstrap=True, criterion=mse, max_depth=2, max_features=sqrt
, min_samples_leaf=4, min_samples_split=12, n_estimators=9
[CV]  bootstrap=True, criterion=mse, max_depth=2, max_features=sqr
t, min_samples_leaf=4, min_samples_split=12, n_estimators=8, total
=   0.5s
[CV]  bootstrap=True, criterion=mse, max_depth=2, max_features=sqr
t, min_samples_leaf=4, min_samples_split=12, n_estimators=8, total
=   0.4s
[CV] bootstrap=True, criterion=mse, max_depth=2, max_features=sqrt
, min_samples_leaf=4, min_samples_split=12, n_estimators=9
[CV] bootstrap=True, criterion=mse, max_depth=2, max_features=sqrt
, min_samples_leaf=4, min_samples_split=12, n_estimators=9
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=   0.5s
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, min_samples_leaf=4, min_samples_split=12, n_estimators=10
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, min_samples_leaf=4, min_samples_split=12, n_estimators=10
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t, min_samples_leaf=4, min_samples_split=12, n_estimators=9, total
=   0.5s
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=   0.6s
```

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t, min_samples_leaf=4, min_samples_split=12, n_estimators=9, total
=   0.6s
[CV] bootstrap=True, criterion=mse, max_depth=2, max_features=sqrt
, min_samples_leaf=4, min_samples_split=12, n_estimators=10
[CV]  bootstrap=True, criterion=mse, max_depth=2, max_features=sqr
t, min_samples_leaf=4, min_samples_split=12, n_estimators=9, total
=   0.6s
[CV]  bootstrap=True, criterion=mse, max_depth=2, max_features=sqr
t, min_samples_leaf=4, min_samples_split=12, n_estimators=9, total
=   0.5s
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, min_samples_leaf=5, min_samples_split=8, n_estimators=2
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, min_samples_leaf=5, min_samples_split=8, n_estimators=2
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t, min_samples_leaf=4, min_samples_split=12, n_estimators=10, tota
l=   0.5s
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t, min_samples_leaf=4, min_samples_split=12, n_estimators=10, tota
l=   0.6s
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0.2s
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l=   0.6s
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t, min_samples_leaf=5, min_samples_split=8, n_estimators=2, total=
0.2s
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l=   0.6s
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0.2s
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, min_samples_leaf=5, min_samples_split=8, n_estimators=3
[CV]  bootstrap=True, criterion=mse, max_depth=2, max_features=sqr
t, min_samples_leaf=4, min_samples_split=12, n_estimators=10, tota
l=   0.6s
```

```
[CV] bootstrap=True, criterion=mse, max_depth=2, max_features=sqrt
, min_samples_leaf=5, min_samples_split=8, n_estimators=3
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0.3s
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0.2s
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0.2s
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0.3s
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0.3s
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0.4s
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0.4s
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t, min_samples_leaf=5, min_samples_split=8, n_estimators=6, total=
0.4s
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[CV]  bootstrap=True, criterion=mse, max_depth=2, max_features=sqr
t, min_samples_leaf=5, min_samples_split=8, n_estimators=6, total=
```

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0.5s
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0.4s
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0.5s
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0.5s
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t, min_samples_leaf=5, min_samples_split=8, n_estimators=9, total=
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0.5s
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=   0.6s
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=   0.2s
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=   0.7s
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=   0.2s
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=   0.2s
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=   0.6s
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=   0.2s
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=   0.6s
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=   0.2s
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=   0.3s
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=   0.2s
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=   0.2s
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=   0.2s
[CV] bootstrap=True, criterion=mse, max_depth=2, max_features=sqrt
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=   0.2s
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=   0.3s
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=   0.3s
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=   0.3s
```

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=   0.3s
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=   0.4s
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=   0.3s
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=   0.3s
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[CV] bootstrap=True, criterion=mse, max_depth=2, max_features=sqrt
, min_samples_leaf=5, min_samples_split=10, n_estimators=6
[CV]  bootstrap=True, criterion=mse, max_depth=2, max_features=sqr
t, min_samples_leaf=5, min_samples_split=10, n_estimators=6, total
=   0.4s
[CV] bootstrap=True, criterion=mse, max_depth=2, max_features=sqrt
, min_samples_leaf=5, min_samples_split=10, n_estimators=7
[CV]  bootstrap=True, criterion=mse, max_depth=2, max_features=sqr
t, min_samples_leaf=5, min_samples_split=10, n_estimators=6, total
=   0.4s
[CV] bootstrap=True, criterion=mse, max_depth=2, max_features=sqrt
, min_samples_leaf=5, min_samples_split=10, n_estimators=7
[CV]  bootstrap=True, criterion=mse, max_depth=2, max_features=sqr
t, min_samples_leaf=5, min_samples_split=10, n_estimators=6, total
=   0.4s
[CV] bootstrap=True, criterion=mse, max_depth=2, max_features=sqrt
, min_samples_leaf=5, min_samples_split=10, n_estimators=7
```

```
[CV]  bootstrap=True, criterion=mse, max_depth=2, max_features=sqr
t, min_samples_leaf=5, min_samples_split=10, n_estimators=6, total
=   0.3s
[CV] bootstrap=True, criterion=mse, max_depth=2, max_features=sqrt
, min_samples_leaf=5, min_samples_split=10, n_estimators=7
[CV] bootstrap=True, criterion=mse, max_depth=2, max_features=sqrt
, min_samples_leaf=5, min_samples_split=10, n_estimators=7
[CV]  bootstrap=True, criterion=mse, max_depth=2, max_features=sqr
t, min_samples_leaf=5, min_samples_split=10, n_estimators=6, total
=   0.5s
[CV] bootstrap=True, criterion=mse, max_depth=2, max_features=sqrt
, min_samples_leaf=5, min_samples_split=10, n_estimators=8
[CV]  bootstrap=True, criterion=mse, max_depth=2, max_features=sqr
t, min_samples_leaf=5, min_samples_split=10, n_estimators=7, total
=   0.4s
[CV]  bootstrap=True, criterion=mse, max_depth=2, max_features=sqr
t, min_samples_leaf=5, min_samples_split=10, n_estimators=7, total
=   0.4s
[CV] bootstrap=True, criterion=mse, max_depth=2, max_features=sqrt
, min_samples_leaf=5, min_samples_split=10, n_estimators=8
[CV]  bootstrap=True, criterion=mse, max_depth=2, max_features=sqr
t, min_samples_leaf=5, min_samples_split=10, n_estimators=7, total
=   0.4s
[CV] bootstrap=True, criterion=mse, max_depth=2, max_features=sqrt
, min_samples_leaf=5, min_samples_split=10, n_estimators=8
[CV]  bootstrap=True, criterion=mse, max_depth=2, max_features=sqr
t, min_samples_leaf=5, min_samples_split=10, n_estimators=7, total
=   0.4s
[CV] bootstrap=True, criterion=mse, max_depth=2, max_features=sqrt
, min_samples_leaf=5, min_samples_split=10, n_estimators=8
[CV]  bootstrap=True, criterion=mse, max_depth=2, max_features=sqr
t, min_samples_leaf=5, min_samples_split=10, n_estimators=7, total
=   0.5s
[CV] bootstrap=True, criterion=mse, max_depth=2, max_features=sqrt
, min_samples_leaf=5, min_samples_split=10, n_estimators=8
[CV]  bootstrap=True, criterion=mse, max_depth=2, max_features=sqr
t, min_samples_leaf=5, min_samples_split=10, n_estimators=8, total
=   0.4s
[CV] bootstrap=True, criterion=mse, max_depth=2, max_features=sqrt
, min_samples_leaf=5, min_samples_split=10, n_estimators=9
[CV]  bootstrap=True, criterion=mse, max_depth=2, max_features=sqr
t, min_samples_leaf=5, min_samples_split=10, n_estimators=8, total
=   0.5s
[CV] bootstrap=True, criterion=mse, max_depth=2, max_features=sqrt
, min_samples_leaf=5, min_samples_split=10, n_estimators=9
[CV] bootstrap=True, criterion=mse, max_depth=2, max_features=sqrt
, min_samples_leaf=5, min_samples_split=10, n_estimators=9
[CV]  bootstrap=True, criterion=mse, max_depth=2, max_features=sqr
t, min_samples_leaf=5, min_samples_split=10, n_estimators=8, total
=   0.5s
[CV] bootstrap=True, criterion=mse, max_depth=2, max_features=sqrt
, min_samples_leaf=5, min_samples_split=10, n_estimators=9
[CV]  bootstrap=True, criterion=mse, max_depth=2, max_features=sqr
t, min_samples_leaf=5, min_samples_split=10, n_estimators=8, total
```

```
=     0.5s
[CV] bootstrap=True, criterion=mse, max_depth=2, max_features=sqrt
, min_samples_leaf=5, min_samples_split=10, n_estimators=9
[CV]  bootstrap=True, criterion=mse, max_depth=2, max_features=sqr
t, min_samples_leaf=5, min_samples_split=10, n_estimators=8, total
=     0.5s
[CV] bootstrap=True, criterion=mse, max_depth=2, max_features=sqrt
, min_samples_leaf=5, min_samples_split=10, n_estimators=10
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t, min_samples_leaf=5, min_samples_split=10, n_estimators=9, total
=     0.5s
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, min_samples_leaf=5, min_samples_split=10, n_estimators=10
[CV]  bootstrap=True, criterion=mse, max_depth=2, max_features=sqr
t, min_samples_leaf=5, min_samples_split=10, n_estimators=9, total
=     0.6s
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, min_samples_leaf=5, min_samples_split=10, n_estimators=10
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, min_samples_leaf=5, min_samples_split=10, n_estimators=10
[CV]  bootstrap=True, criterion=mse, max_depth=2, max_features=sqr
t, min_samples_leaf=5, min_samples_split=10, n_estimators=9, total
=     0.6s
[CV]  bootstrap=True, criterion=mse, max_depth=2, max_features=sqr
t, min_samples_leaf=5, min_samples_split=10, n_estimators=9, total
=     0.6s
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t, min_samples_leaf=5, min_samples_split=10, n_estimators=9, total
=     0.5s
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[CV] bootstrap=True, criterion=mse, max_depth=2, max_features=sqrt
, min_samples_leaf=5, min_samples_split=12, n_estimators=2
[CV]  bootstrap=True, criterion=mse, max_depth=2, max_features=sqr
t, min_samples_leaf=5, min_samples_split=10, n_estimators=10, tota
l=     0.7s
[CV]  bootstrap=True, criterion=mse, max_depth=2, max_features=sqr
t, min_samples_leaf=5, min_samples_split=10, n_estimators=10, tota
l=     0.6s
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[CV]  bootstrap=True, criterion=mse, max_depth=2, max_features=sqr
t, min_samples_leaf=5, min_samples_split=12, n_estimators=2, total
=     0.2s
[CV] bootstrap=True, criterion=mse, max_depth=2, max_features=sqrt
, min_samples_leaf=5, min_samples_split=12, n_estimators=2
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t, min_samples_leaf=5, min_samples_split=10, n_estimators=10, tota
l=     0.6s
[CV]  bootstrap=True, criterion=mse, max_depth=2, max_features=sqr
t, min_samples_leaf=5, min_samples_split=12, n_estimators=2, total
=     0.2s
[CV]  bootstrap=True, criterion=mse, max_depth=2, max_features=sqr
t, min_samples_leaf=5, min_samples_split=10, n_estimators=10, tota
```

```
l=    0.7s
[CV] bootstrap=True, criterion=mse, max_depth=2, max_features=sqrt
, min_samples_leaf=5, min_samples_split=12, n_estimators=2
[CV]  bootstrap=True, criterion=mse, max_depth=2, max_features=sqr
t, min_samples_leaf=5, min_samples_split=10, n_estimators=10, tota
l=    0.6s
[CV]  bootstrap=True, criterion=mse, max_depth=2, max_features=sqr
t, min_samples_leaf=5, min_samples_split=12, n_estimators=2, total
=    0.2s
[CV] bootstrap=True, criterion=mse, max_depth=2, max_features=sqrt
, min_samples_leaf=5, min_samples_split=12, n_estimators=2
[CV]  bootstrap=True, criterion=mse, max_depth=2, max_features=sqr
t, min_samples_leaf=5, min_samples_split=12, n_estimators=2, total
=    0.1s
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, min_samples_leaf=5, min_samples_split=12, n_estimators=3
[CV]  bootstrap=True, criterion=mse, max_depth=2, max_features=sqr
t, min_samples_leaf=5, min_samples_split=12, n_estimators=2, total
=    0.2s
[CV] bootstrap=True, criterion=mse, max_depth=2, max_features=sqrt
, min_samples_leaf=5, min_samples_split=12, n_estimators=3
[CV]  bootstrap=True, criterion=mse, max_depth=2, max_features=sqr
t, min_samples_leaf=5, min_samples_split=12, n_estimators=3, total
=    0.2s
[CV] bootstrap=True, criterion=mse, max_depth=2, max_features=sqrt
, min_samples_leaf=5, min_samples_split=12, n_estimators=3
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t, min_samples_leaf=5, min_samples_split=12, n_estimators=3, total
=    0.3s
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t, min_samples_leaf=5, min_samples_split=12, n_estimators=3, total
=    0.3s
[CV] bootstrap=True, criterion=mse, max_depth=2, max_features=sqrt
, min_samples_leaf=5, min_samples_split=12, n_estimators=4
[CV]  bootstrap=True, criterion=mse, max_depth=2, max_features=sqr
t, min_samples_leaf=5, min_samples_split=12, n_estimators=3, total
=    0.3s
[CV] bootstrap=True, criterion=mse, max_depth=2, max_features=sqrt
, min_samples_leaf=5, min_samples_split=12, n_estimators=4
[CV]  bootstrap=True, criterion=mse, max_depth=2, max_features=sqr
t, min_samples_leaf=5, min_samples_split=12, n_estimators=3, total
=    0.2s
[CV] bootstrap=True, criterion=mse, max_depth=2, max_features=sqrt
, min_samples_leaf=5, min_samples_split=12, n_estimators=4
[CV]  bootstrap=True, criterion=mse, max_depth=2, max_features=sqr
t, min_samples_leaf=5, min_samples_split=12, n_estimators=4, total
=    0.3s
[CV] bootstrap=True, criterion=mse, max_depth=2, max_features=sqrt
, min_samples_leaf=5, min_samples_split=12, n_estimators=4
[CV] bootstrap=True, criterion=mse, max_depth=2, max_features=sqrt
```

```
, min_samples_leaf=5, min_samples_split=12, n_estimators=4
[CV]  bootstrap=True, criterion=mse, max_depth=2, max_features=sqr
t, min_samples_leaf=5, min_samples_split=12, n_estimators=4, total
=   0.3s
[CV]  bootstrap=True, criterion=mse, max_depth=2, max_features=sqr
t, min_samples_leaf=5, min_samples_split=12, n_estimators=4, total
=   0.2s
[CV] bootstrap=True, criterion=mse, max_depth=2, max_features=sqrt
, min_samples_leaf=5, min_samples_split=12, n_estimators=5
[CV] bootstrap=True, criterion=mse, max_depth=2, max_features=sqrt
, min_samples_leaf=5, min_samples_split=12, n_estimators=5
[CV]  bootstrap=True, criterion=mse, max_depth=2, max_features=sqr
t, min_samples_leaf=5, min_samples_split=12, n_estimators=4, total
=   0.3s
[CV] bootstrap=True, criterion=mse, max_depth=2, max_features=sqrt
, min_samples_leaf=5, min_samples_split=12, n_estimators=5
[CV]  bootstrap=True, criterion=mse, max_depth=2, max_features=sqr
t, min_samples_leaf=5, min_samples_split=12, n_estimators=4, total
=   0.3s
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, min_samples_leaf=5, min_samples_split=12, n_estimators=5
[CV]  bootstrap=True, criterion=mse, max_depth=2, max_features=sqr
t, min_samples_leaf=5, min_samples_split=12, n_estimators=5, total
=   0.3s
[CV] bootstrap=True, criterion=mse, max_depth=2, max_features=sqrt
, min_samples_leaf=5, min_samples_split=12, n_estimators=5
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t, min_samples_leaf=5, min_samples_split=12, n_estimators=5, total
=   0.3s
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, min_samples_leaf=5, min_samples_split=12, n_estimators=6
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t, min_samples_leaf=5, min_samples_split=12, n_estimators=5, total
=   0.4s
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t, min_samples_leaf=5, min_samples_split=12, n_estimators=5, total
=   0.3s
[CV] bootstrap=True, criterion=mse, max_depth=2, max_features=sqrt
, min_samples_leaf=5, min_samples_split=12, n_estimators=6
[CV]  bootstrap=True, criterion=mse, max_depth=2, max_features=sqr
t, min_samples_leaf=5, min_samples_split=12, n_estimators=5, total
=   0.3s
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, min_samples_leaf=5, min_samples_split=12, n_estimators=6
[CV]  bootstrap=True, criterion=mse, max_depth=2, max_features=sqr
t, min_samples_leaf=5, min_samples_split=12, n_estimators=6, total
=   0.4s
[CV] bootstrap=True, criterion=mse, max_depth=2, max_features=sqrt
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[CV]  bootstrap=True, criterion=mse, max_depth=2, max_features=sqr
```

```
t, min_samples_leaf=5, min_samples_split=12, n_estimators=6, total
=   0.4s
[CV] bootstrap=True, criterion=mse, max_depth=2, max_features=sqrt
, min_samples_leaf=5, min_samples_split=12, n_estimators=7
[CV]  bootstrap=True, criterion=mse, max_depth=2, max_features=sqr
t, min_samples_leaf=5, min_samples_split=12, n_estimators=6, total
=   0.4s
[CV] bootstrap=True, criterion=mse, max_depth=2, max_features=sqrt
, min_samples_leaf=5, min_samples_split=12, n_estimators=7
[CV] bootstrap=True, criterion=mse, max_depth=2, max_features=sqrt
, min_samples_leaf=5, min_samples_split=12, n_estimators=7
[CV]  bootstrap=True, criterion=mse, max_depth=2, max_features=sqr
t, min_samples_leaf=5, min_samples_split=12, n_estimators=6, total
=   0.4s
[CV]  bootstrap=True, criterion=mse, max_depth=2, max_features=sqr
t, min_samples_leaf=5, min_samples_split=12, n_estimators=6, total
=   0.4s
[CV] bootstrap=True, criterion=mse, max_depth=2, max_features=sqrt
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[CV] bootstrap=True, criterion=mse, max_depth=2, max_features=sqrt
, min_samples_leaf=5, min_samples_split=12, n_estimators=8
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=   0.4s
[CV] bootstrap=True, criterion=mse, max_depth=2, max_features=sqrt
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[CV]  bootstrap=True, criterion=mse, max_depth=2, max_features=sqr
t, min_samples_leaf=5, min_samples_split=12, n_estimators=7, total
=   0.4s
[CV]  bootstrap=True, criterion=mse, max_depth=2, max_features=sqr
t, min_samples_leaf=5, min_samples_split=12, n_estimators=7, total
=   0.5s
[CV] bootstrap=True, criterion=mse, max_depth=2, max_features=sqrt
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t, min_samples_leaf=5, min_samples_split=12, n_estimators=7, total
=   0.4s
[CV] bootstrap=True, criterion=mse, max_depth=2, max_features=sqrt
, min_samples_leaf=5, min_samples_split=12, n_estimators=8
[CV]  bootstrap=True, criterion=mse, max_depth=2, max_features=sqr
t, min_samples_leaf=5, min_samples_split=12, n_estimators=7, total
=   0.4s
[CV] bootstrap=True, criterion=mse, max_depth=2, max_features=sqrt
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, min_samples_leaf=5, min_samples_split=12, n_estimators=9
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t, min_samples_leaf=5, min_samples_split=12, n_estimators=8, total
=   0.5s
[CV] bootstrap=True, criterion=mse, max_depth=2, max_features=sqrt
, min_samples_leaf=5, min_samples_split=12, n_estimators=9
[CV]  bootstrap=True, criterion=mse, max_depth=2, max_features=sqr
t, min_samples_leaf=5, min_samples_split=12, n_estimators=8, total
=   0.5s
```

```
[CV] bootstrap=True, criterion=mse, max_depth=2, max_features=sqrt
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[CV]  bootstrap=True, criterion=mse, max_depth=2, max_features=sqr
t, min_samples_leaf=5, min_samples_split=12, n_estimators=8, total
=   0.6s
[CV]  bootstrap=True, criterion=mse, max_depth=2, max_features=sqr
t, min_samples_leaf=5, min_samples_split=12, n_estimators=8, total
=   0.5s
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=   0.4s
[CV] bootstrap=True, criterion=mse, max_depth=2, max_features=sqrt
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=   0.6s
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, min_samples_leaf=5, min_samples_split=12, n_estimators=10
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t, min_samples_leaf=5, min_samples_split=12, n_estimators=9, total
=   0.5s
[CV] bootstrap=True, criterion=mse, max_depth=2, max_features=sqrt
, min_samples_leaf=5, min_samples_split=12, n_estimators=10
[CV] bootstrap=True, criterion=mse, max_depth=2, max_features=sqrt
, min_samples_leaf=5, min_samples_split=12, n_estimators=10
[CV]  bootstrap=True, criterion=mse, max_depth=2, max_features=sqr
t, min_samples_leaf=5, min_samples_split=12, n_estimators=9, total
=   0.5s
[CV]  bootstrap=True, criterion=mse, max_depth=2, max_features=sqr
t, min_samples_leaf=5, min_samples_split=12, n_estimators=9, total
=   0.6s
[CV] bootstrap=True, criterion=mse, max_depth=2, max_features=sqrt
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[CV]  bootstrap=True, criterion=mse, max_depth=2, max_features=sqr
t, min_samples_leaf=5, min_samples_split=12, n_estimators=9, total
=   0.6s
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, min_samples_leaf=3, min_samples_split=8, n_estimators=2
[CV]  bootstrap=True, criterion=mse, max_depth=2, max_features=sqr
t, min_samples_leaf=5, min_samples_split=12, n_estimators=10, tota
l=   0.7s
[CV] bootstrap=True, criterion=mse, max_depth=6, max_features=auto
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t, min_samples_leaf=5, min_samples_split=12, n_estimators=10, tota
l=   0.5s
[CV]  bootstrap=True, criterion=mse, max_depth=2, max_features=sqr
t, min_samples_leaf=5, min_samples_split=12, n_estimators=10, tota
```

```
l=    0.7s
[CV] bootstrap=True, criterion=mse, max_depth=6, max_features=auto
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[CV]  bootstrap=True, criterion=mse, max_depth=2, max_features=sqr
t, min_samples_leaf=5, min_samples_split=12, n_estimators=10, tota
l=    0.5s
[CV] bootstrap=True, criterion=mse, max_depth=6, max_features=auto
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t, min_samples_leaf=5, min_samples_split=12, n_estimators=10, tota
l=    0.6s
[CV] bootstrap=True, criterion=mse, max_depth=6, max_features=auto
, min_samples_leaf=3, min_samples_split=8, n_estimators=3
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, min_samples_leaf=3, min_samples_split=8, n_estimators=5
[CV] bootstrap=True, criterion=mse, max_depth=6, max_features=auto
, min_samples_leaf=3, min_samples_split=8, n_estimators=5
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, min_samples_leaf=3, min_samples_split=8, n_estimators=6
[CV] bootstrap=True, criterion=mse, max_depth=6, max_features=auto
, min_samples_leaf=3, min_samples_split=8, n_estimators=6
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, min_samples_leaf=3, min_samples_split=8, n_estimators=6
[CV]  bootstrap=True, criterion=mse, max_depth=6, max_features=aut
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2.2s
[CV] bootstrap=True, criterion=mse, max_depth=6, max_features=auto
, min_samples_leaf=3, min_samples_split=8, n_estimators=6
[CV]  bootstrap=True, criterion=mse, max_depth=6, max_features=aut
o, min_samples_leaf=3, min_samples_split=8, n_estimators=2, total=
```

```
2.2s
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2.3s
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, min_samples_leaf=3, min_samples_split=8, n_estimators=7
[CV] bootstrap=True, criterion=mse, max_depth=6, max_features=auto
, min_samples_leaf=3, min_samples_split=8, n_estimators=7
[CV]  bootstrap=True, criterion=mse, max_depth=6, max_features=aut
o, min_samples_leaf=3, min_samples_split=8, n_estimators=2, total=
2.3s
[CV]  bootstrap=True, criterion=mse, max_depth=6, max_features=aut
o, min_samples_leaf=3, min_samples_split=8, n_estimators=2, total=
2.4s
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[CV] bootstrap=True, criterion=mse, max_depth=6, max_features=auto
, min_samples_leaf=3, min_samples_split=8, n_estimators=9
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, min_samples_leaf=3, min_samples_split=8, n_estimators=9
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3.5s
[CV]  bootstrap=True, criterion=mse, max_depth=6, max_features=aut
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3.7s
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o, min_samples_leaf=3, min_samples_split=8, n_estimators=3, total=
```

```
3.6s
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, min_samples_leaf=3, min_samples_split=8, n_estimators=10
[CV] bootstrap=True, criterion=mse, max_depth=6, max_features=auto
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o, min_samples_leaf=3, min_samples_split=8, n_estimators=3, total=
3.6s
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4.1s
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, min_samples_leaf=3, min_samples_split=10, n_estimators=4
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, min_samples_leaf=3, min_samples_split=10, n_estimators=4
[CV] bootstrap=True, criterion=mse, max_depth=6, max_features=auto
, min_samples_leaf=3, min_samples_split=10, n_estimators=4
[CV] bootstrap=True, criterion=mse, max_depth=6, max_features=auto
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[CV] bootstrap=True, criterion=mse, max_depth=6, max_features=auto
, min_samples_leaf=3, min_samples_split=10, n_estimators=5
[CV]  bootstrap=True, criterion=mse, max_depth=6, max_features=aut
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5.4s
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, min_samples_leaf=3, min_samples_split=10, n_estimators=5
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, min_samples_leaf=3, min_samples_split=10, n_estimators=5
[CV] bootstrap=True, criterion=mse, max_depth=6, max_features=auto
, min_samples_leaf=3, min_samples_split=10, n_estimators=5
```

```
[CV] bootstrap=True, criterion=mse, max_depth=6, max_features=auto
, min_samples_leaf=3, min_samples_split=10, n_estimators=5
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o, min_samples_leaf=3, min_samples_split=8, n_estimators=4, total=
5.7s
[CV]  bootstrap=True, criterion=mse, max_depth=6, max_features=aut
o, min_samples_leaf=3, min_samples_split=8, n_estimators=4, total=
5.9s
[CV] bootstrap=True, criterion=mse, max_depth=6, max_features=auto
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[CV]  bootstrap=True, criterion=mse, max_depth=6, max_features=aut
o, min_samples_leaf=3, min_samples_split=8, n_estimators=4, total=
5.8s
[CV] bootstrap=True, criterion=mse, max_depth=6, max_features=auto
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[CV] bootstrap=True, criterion=mse, max_depth=6, max_features=auto
, min_samples_leaf=3, min_samples_split=10, n_estimators=6
[CV]  bootstrap=True, criterion=mse, max_depth=6, max_features=aut
o, min_samples_leaf=3, min_samples_split=8, n_estimators=4, total=
6.1s
[CV] bootstrap=True, criterion=mse, max_depth=6, max_features=auto
, min_samples_leaf=3, min_samples_split=10, n_estimators=7
[CV]  bootstrap=True, criterion=mse, max_depth=6, max_features=aut
o, min_samples_leaf=3, min_samples_split=10, n_estimators=2, total
=   3.9s
[CV] bootstrap=True, criterion=mse, max_depth=6, max_features=auto
, min_samples_leaf=3, min_samples_split=10, n_estimators=7
[CV]  bootstrap=True, criterion=mse, max_depth=6, max_features=aut
o, min_samples_leaf=3, min_samples_split=10, n_estimators=2, total
=   4.1s
[CV]  bootstrap=True, criterion=mse, max_depth=6, max_features=aut
o, min_samples_leaf=3, min_samples_split=10, n_estimators=2, total
=   4.0s
[CV] bootstrap=True, criterion=mse, max_depth=6, max_features=auto
, min_samples_leaf=3, min_samples_split=10, n_estimators=7
[CV]  bootstrap=True, criterion=mse, max_depth=6, max_features=aut
o, min_samples_leaf=3, min_samples_split=10, n_estimators=2, total
=   4.0s
[CV]  bootstrap=True, criterion=mse, max_depth=6, max_features=aut
o, min_samples_leaf=3, min_samples_split=10, n_estimators=2, total
=   3.9s
[CV] bootstrap=True, criterion=mse, max_depth=6, max_features=auto
, min_samples_leaf=3, min_samples_split=10, n_estimators=7
[CV] bootstrap=True, criterion=mse, max_depth=6, max_features=auto
, min_samples_leaf=3, min_samples_split=10, n_estimators=7
[CV] bootstrap=True, criterion=mse, max_depth=6, max_features=auto
, min_samples_leaf=3, min_samples_split=10, n_estimators=8
[CV]  bootstrap=True, criterion=mse, max_depth=6, max_features=aut
o, min_samples_leaf=3, min_samples_split=8, n_estimators=5, total=
7.9s
```

```
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, min_samples_leaf=3, min_samples_split=10, n_estimators=8
[CV]  bootstrap=True, criterion=mse, max_depth=6, max_features=aut
o, min_samples_leaf=3, min_samples_split=8, n_estimators=5, total=
8.1s
[CV]  bootstrap=True, criterion=mse, max_depth=6, max_features=aut
o, min_samples_leaf=3, min_samples_split=8, n_estimators=5, total=
8.1s
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, min_samples_leaf=3, min_samples_split=10, n_estimators=8
[CV]  bootstrap=True, criterion=mse, max_depth=6, max_features=aut
o, min_samples_leaf=3, min_samples_split=8, n_estimators=5, total=
8.0s
[CV] bootstrap=True, criterion=mse, max_depth=6, max_features=auto
, min_samples_leaf=3, min_samples_split=10, n_estimators=8
[CV] bootstrap=True, criterion=mse, max_depth=6, max_features=auto
, min_samples_leaf=3, min_samples_split=10, n_estimators=8
[CV]  bootstrap=True, criterion=mse, max_depth=6, max_features=aut
o, min_samples_leaf=3, min_samples_split=8, n_estimators=5, total=
8.2s
[CV] bootstrap=True, criterion=mse, max_depth=6, max_features=auto
, min_samples_leaf=3, min_samples_split=10, n_estimators=9
[CV]  bootstrap=True, criterion=mse, max_depth=6, max_features=aut
o, min_samples_leaf=3, min_samples_split=10, n_estimators=3, total
=   6.1s
[CV] bootstrap=True, criterion=mse, max_depth=6, max_features=auto
, min_samples_leaf=3, min_samples_split=10, n_estimators=9
[CV]  bootstrap=True, criterion=mse, max_depth=6, max_features=aut
o, min_samples_leaf=3, min_samples_split=10, n_estimators=3, total
=   6.2s
[CV] bootstrap=True, criterion=mse, max_depth=6, max_features=auto
, min_samples_leaf=3, min_samples_split=10, n_estimators=9
[CV]  bootstrap=True, criterion=mse, max_depth=6, max_features=aut
o, min_samples_leaf=3, min_samples_split=10, n_estimators=3, total
=   6.2s
[CV] bootstrap=True, criterion=mse, max_depth=6, max_features=auto
, min_samples_leaf=3, min_samples_split=10, n_estimators=9
[CV]  bootstrap=True, criterion=mse, max_depth=6, max_features=aut
o, min_samples_leaf=3, min_samples_split=10, n_estimators=3, total
=   6.5s
[CV] bootstrap=True, criterion=mse, max_depth=6, max_features=auto
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10.3s
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[CV]  bootstrap=True, criterion=mse, max_depth=6, max_features=aut
o, min_samples_leaf=3, min_samples_split=10, n_estimators=3, total
=   6.9s
[CV] bootstrap=True, criterion=mse, max_depth=6, max_features=auto
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[CV]  bootstrap=True, criterion=mse, max_depth=6, max_features=aut
o, min_samples_leaf=3, min_samples_split=8, n_estimators=6, total=
```

```
10.6s
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[CV]  bootstrap=True, criterion=mse, max_depth=6, max_features=aut
o, min_samples_leaf=3, min_samples_split=8, n_estimators=6, total=
10.9s
[CV] bootstrap=True, criterion=mse, max_depth=6, max_features=auto
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[CV]  bootstrap=True, criterion=mse, max_depth=6, max_features=aut
o, min_samples_leaf=3, min_samples_split=8, n_estimators=6, total=
11.2s
[CV]  bootstrap=True, criterion=mse, max_depth=6, max_features=aut
o, min_samples_leaf=3, min_samples_split=8, n_estimators=6, total=
11.3s
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[CV]  bootstrap=True, criterion=mse, max_depth=6, max_features=aut
o, min_samples_leaf=3, min_samples_split=10, n_estimators=4, total
=   8.1s
[CV] bootstrap=True, criterion=mse, max_depth=6, max_features=auto
, min_samples_leaf=3, min_samples_split=12, n_estimators=2
[CV]  bootstrap=True, criterion=mse, max_depth=6, max_features=aut
o, min_samples_leaf=3, min_samples_split=10, n_estimators=4, total
=   8.5s
[CV]  bootstrap=True, criterion=mse, max_depth=6, max_features=aut
o, min_samples_leaf=3, min_samples_split=10, n_estimators=4, total
=   8.4s
[CV] bootstrap=True, criterion=mse, max_depth=6, max_features=auto
, min_samples_leaf=3, min_samples_split=12, n_estimators=2
[CV]  bootstrap=True, criterion=mse, max_depth=6, max_features=aut
o, min_samples_leaf=3, min_samples_split=10, n_estimators=4, total
=   8.4s
[CV] bootstrap=True, criterion=mse, max_depth=6, max_features=auto
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, min_samples_leaf=3, min_samples_split=12, n_estimators=2
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12.8s
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o, min_samples_leaf=3, min_samples_split=10, n_estimators=4, total
=   9.2s
[CV] bootstrap=True, criterion=mse, max_depth=6, max_features=auto
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o, min_samples_leaf=3, min_samples_split=8, n_estimators=7, total=
12.9s
[CV] bootstrap=True, criterion=mse, max_depth=6, max_features=auto
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[CV]  bootstrap=True, criterion=mse, max_depth=6, max_features=aut
```

```
o, min_samples_leaf=3, min_samples_split=8, n_estimators=7, total=
13.3s
[CV] bootstrap=True, criterion=mse, max_depth=6, max_features=auto
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o, min_samples_leaf=3, min_samples_split=8, n_estimators=7, total=
13.6s
[CV]  bootstrap=True, criterion=mse, max_depth=6, max_features=aut
o, min_samples_leaf=3, min_samples_split=10, n_estimators=5, total
=    9.7s
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o, min_samples_leaf=3, min_samples_split=8, n_estimators=7, total=
13.5s
[CV]  bootstrap=True, criterion=mse, max_depth=6, max_features=aut
o, min_samples_leaf=3, min_samples_split=10, n_estimators=5, total
=    9.7s
[CV] bootstrap=True, criterion=mse, max_depth=6, max_features=auto
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o, min_samples_leaf=3, min_samples_split=10, n_estimators=5, total
=   10.2s
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o, min_samples_leaf=3, min_samples_split=10, n_estimators=5, total
=    9.9s
[CV] bootstrap=True, criterion=mse, max_depth=6, max_features=auto
, min_samples_leaf=3, min_samples_split=12, n_estimators=4
[CV] bootstrap=True, criterion=mse, max_depth=6, max_features=auto
, min_samples_leaf=3, min_samples_split=12, n_estimators=4
[CV]  bootstrap=True, criterion=mse, max_depth=6, max_features=aut
o, min_samples_leaf=3, min_samples_split=10, n_estimators=5, total
=   10.8s
[CV] bootstrap=True, criterion=mse, max_depth=6, max_features=auto
, min_samples_leaf=3, min_samples_split=12, n_estimators=5
[CV]  bootstrap=True, criterion=mse, max_depth=6, max_features=aut
o, min_samples_leaf=3, min_samples_split=8, n_estimators=8, total=
14.9s
[CV]  bootstrap=True, criterion=mse, max_depth=6, max_features=aut
o, min_samples_leaf=3, min_samples_split=12, n_estimators=2, total
=    4.1s
[CV] bootstrap=True, criterion=mse, max_depth=6, max_features=auto
, min_samples_leaf=3, min_samples_split=12, n_estimators=5
[CV] bootstrap=True, criterion=mse, max_depth=6, max_features=auto
, min_samples_leaf=3, min_samples_split=12, n_estimators=5
[CV]  bootstrap=True, criterion=mse, max_depth=6, max_features=aut
o, min_samples_leaf=3, min_samples_split=8, n_estimators=8, total=
15.5s
[CV]  bootstrap=True, criterion=mse, max_depth=6, max_features=aut
o, min_samples_leaf=3, min_samples_split=12, n_estimators=2, total
```

```
=    4.8s
[CV] bootstrap=True, criterion=mse, max_depth=6, max_features=auto
, min_samples_leaf=3, min_samples_split=12, n_estimators=5
[CV] bootstrap=True, criterion=mse, max_depth=6, max_features=auto
, min_samples_leaf=3, min_samples_split=12, n_estimators=5
[CV]  bootstrap=True, criterion=mse, max_depth=6, max_features=aut
o, min_samples_leaf=3, min_samples_split=12, n_estimators=2, total
=    4.2s
[CV] bootstrap=True, criterion=mse, max_depth=6, max_features=auto
, min_samples_leaf=3, min_samples_split=12, n_estimators=6
[CV]  bootstrap=True, criterion=mse, max_depth=6, max_features=aut
o, min_samples_leaf=3, min_samples_split=8, n_estimators=8, total=
15.5s
[CV]  bootstrap=True, criterion=mse, max_depth=6, max_features=aut
o, min_samples_leaf=3, min_samples_split=10, n_estimators=6, total
=   12.0s
[CV] bootstrap=True, criterion=mse, max_depth=6, max_features=auto
, min_samples_leaf=3, min_samples_split=12, n_estimators=6
[CV]  bootstrap=True, criterion=mse, max_depth=6, max_features=aut
o, min_samples_leaf=3, min_samples_split=10, n_estimators=6, total
=   11.9s
[CV]  bootstrap=True, criterion=mse, max_depth=6, max_features=aut
o, min_samples_leaf=3, min_samples_split=12, n_estimators=2, total
=    4.7s
[CV]  bootstrap=True, criterion=mse, max_depth=6, max_features=aut
o, min_samples_leaf=3, min_samples_split=10, n_estimators=6, total
=   11.9s
[CV] bootstrap=True, criterion=mse, max_depth=6, max_features=auto
, min_samples_leaf=3, min_samples_split=12, n_estimators=6
[CV] bootstrap=True, criterion=mse, max_depth=6, max_features=auto
, min_samples_leaf=3, min_samples_split=12, n_estimators=6
[CV] bootstrap=True, criterion=mse, max_depth=6, max_features=auto
, min_samples_leaf=3, min_samples_split=12, n_estimators=6
[CV] bootstrap=True, criterion=mse, max_depth=6, max_features=auto
, min_samples_leaf=3, min_samples_split=12, n_estimators=7
[CV]  bootstrap=True, criterion=mse, max_depth=6, max_features=aut
o, min_samples_leaf=3, min_samples_split=12, n_estimators=2, total
=    4.7s
[CV]  bootstrap=True, criterion=mse, max_depth=6, max_features=aut
o, min_samples_leaf=3, min_samples_split=8, n_estimators=8, total=
16.4s
[CV] bootstrap=True, criterion=mse, max_depth=6, max_features=auto
, min_samples_leaf=3, min_samples_split=12, n_estimators=7
[CV] bootstrap=True, criterion=mse, max_depth=6, max_features=auto
, min_samples_leaf=3, min_samples_split=12, n_estimators=7
[CV]  bootstrap=True, criterion=mse, max_depth=6, max_features=aut
o, min_samples_leaf=3, min_samples_split=8, n_estimators=8, total=
16.8s
[CV] bootstrap=True, criterion=mse, max_depth=6, max_features=auto
, min_samples_leaf=3, min_samples_split=12, n_estimators=7
[CV]  bootstrap=True, criterion=mse, max_depth=6, max_features=aut
o, min_samples_leaf=3, min_samples_split=10, n_estimators=6, total
=   12.7s
[CV] bootstrap=True, criterion=mse, max_depth=6, max_features=auto
```

```
, min_samples_leaf=3, min_samples_split=12, n_estimators=7
[CV]  bootstrap=True, criterion=mse, max_depth=6, max_features=aut
o, min_samples_leaf=3, min_samples_split=10, n_estimators=6, total
=  13.9s
[CV] bootstrap=True, criterion=mse, max_depth=6, max_features=auto
, min_samples_leaf=3, min_samples_split=12, n_estimators=8
[CV]  bootstrap=True, criterion=mse, max_depth=6, max_features=aut
o, min_samples_leaf=3, min_samples_split=8, n_estimators=9, total=
17.7s
[CV] bootstrap=True, criterion=mse, max_depth=6, max_features=auto
, min_samples_leaf=3, min_samples_split=12, n_estimators=8
[CV]  bootstrap=True, criterion=mse, max_depth=6, max_features=aut
o, min_samples_leaf=3, min_samples_split=12, n_estimators=3, total
=   6.2s
[CV]  bootstrap=True, criterion=mse, max_depth=6, max_features=aut
o, min_samples_leaf=3, min_samples_split=12, n_estimators=3, total
=   6.5s
[CV]  bootstrap=True, criterion=mse, max_depth=6, max_features=aut
o, min_samples_leaf=3, min_samples_split=12, n_estimators=3, total
=   6.3s
[CV] bootstrap=True, criterion=mse, max_depth=6, max_features=auto
, min_samples_leaf=3, min_samples_split=12, n_estimators=8
[CV] bootstrap=True, criterion=mse, max_depth=6, max_features=auto
, min_samples_leaf=3, min_samples_split=12, n_estimators=8
[CV] bootstrap=True, criterion=mse, max_depth=6, max_features=auto
, min_samples_leaf=3, min_samples_split=12, n_estimators=8
[CV]  bootstrap=True, criterion=mse, max_depth=6, max_features=aut
o, min_samples_leaf=3, min_samples_split=8, n_estimators=9, total=
18.8s
[CV] bootstrap=True, criterion=mse, max_depth=6, max_features=auto
, min_samples_leaf=3, min_samples_split=12, n_estimators=9
[CV]  bootstrap=True, criterion=mse, max_depth=6, max_features=aut
o, min_samples_leaf=3, min_samples_split=10, n_estimators=7, total
=  14.8s
[CV] bootstrap=True, criterion=mse, max_depth=6, max_features=auto
, min_samples_leaf=3, min_samples_split=12, n_estimators=9
[CV]  bootstrap=True, criterion=mse, max_depth=6, max_features=aut
o, min_samples_leaf=3, min_samples_split=8, n_estimators=9, total=
18.9s
[CV] bootstrap=True, criterion=mse, max_depth=6, max_features=auto
, min_samples_leaf=3, min_samples_split=12, n_estimators=9
[CV]  bootstrap=True, criterion=mse, max_depth=6, max_features=aut
o, min_samples_leaf=3, min_samples_split=12, n_estimators=3, total
=   6.4s
[CV]  bootstrap=True, criterion=mse, max_depth=6, max_features=aut
o, min_samples_leaf=3, min_samples_split=10, n_estimators=7, total
=  14.1s
[CV] bootstrap=True, criterion=mse, max_depth=6, max_features=auto
, min_samples_leaf=3, min_samples_split=12, n_estimators=9
[CV] bootstrap=True, criterion=mse, max_depth=6, max_features=auto
, min_samples_leaf=3, min_samples_split=12, n_estimators=9
[CV]  bootstrap=True, criterion=mse, max_depth=6, max_features=aut
o, min_samples_leaf=3, min_samples_split=10, n_estimators=7, total
=  13.9s
```

```
[CV] bootstrap=True, criterion=mse, max_depth=6, max_features=auto
, min_samples_leaf=3, min_samples_split=12, n_estimators=10
[CV]  bootstrap=True, criterion=mse, max_depth=6, max_features=aut
o, min_samples_leaf=3, min_samples_split=12, n_estimators=3, total
=   6.9s
[CV] bootstrap=True, criterion=mse, max_depth=6, max_features=auto
, min_samples_leaf=3, min_samples_split=12, n_estimators=10
[CV]  bootstrap=True, criterion=mse, max_depth=6, max_features=aut
o, min_samples_leaf=3, min_samples_split=10, n_estimators=7, total
=   14.4s
[CV]  bootstrap=True, criterion=mse, max_depth=6, max_features=aut
o, min_samples_leaf=3, min_samples_split=8, n_estimators=9, total=
19.8s
[CV] bootstrap=True, criterion=mse, max_depth=6, max_features=auto
, min_samples_leaf=3, min_samples_split=12, n_estimators=10
[CV]  bootstrap=True, criterion=mse, max_depth=6, max_features=aut
o, min_samples_leaf=3, min_samples_split=8, n_estimators=10, total
=   19.3s
[CV] bootstrap=True, criterion=mse, max_depth=6, max_features=auto
, min_samples_leaf=3, min_samples_split=12, n_estimators=10
[CV]  bootstrap=True, criterion=mse, max_depth=6, max_features=aut
o, min_samples_leaf=3, min_samples_split=8, n_estimators=10, total
=   19.6s
[CV] bootstrap=True, criterion=mse, max_depth=6, max_features=auto
, min_samples_leaf=3, min_samples_split=12, n_estimators=10
[CV] bootstrap=True, criterion=mse, max_depth=6, max_features=auto
, min_samples_leaf=4, min_samples_split=8, n_estimators=2
[CV]  bootstrap=True, criterion=mse, max_depth=6, max_features=aut
o, min_samples_leaf=3, min_samples_split=10, n_estimators=7, total
=   15.1s
[CV]  bootstrap=True, criterion=mse, max_depth=6, max_features=aut
o, min_samples_leaf=3, min_samples_split=8, n_estimators=10, total
=   19.9s
[CV] bootstrap=True, criterion=mse, max_depth=6, max_features=auto
, min_samples_leaf=4, min_samples_split=8, n_estimators=2
[CV] bootstrap=True, criterion=mse, max_depth=6, max_features=auto
, min_samples_leaf=4, min_samples_split=8, n_estimators=2
[CV]  bootstrap=True, criterion=mse, max_depth=6, max_features=aut
o, min_samples_leaf=3, min_samples_split=8, n_estimators=10, total
=   20.0s
[CV]  bootstrap=True, criterion=mse, max_depth=6, max_features=aut
o, min_samples_leaf=3, min_samples_split=8, n_estimators=9, total=
20.6s
[CV] bootstrap=True, criterion=mse, max_depth=6, max_features=auto
, min_samples_leaf=4, min_samples_split=8, n_estimators=2
[CV]  bootstrap=True, criterion=mse, max_depth=6, max_features=aut
o, min_samples_leaf=3, min_samples_split=12, n_estimators=4, total
=    8.1s
[CV] bootstrap=True, criterion=mse, max_depth=6, max_features=auto
, min_samples_leaf=4, min_samples_split=8, n_estimators=2
[CV] bootstrap=True, criterion=mse, max_depth=6, max_features=auto
, min_samples_leaf=4, min_samples_split=8, n_estimators=3
[CV]  bootstrap=True, criterion=mse, max_depth=6, max_features=aut
o, min_samples_leaf=3, min_samples_split=12, n_estimators=4, total
```

```
=    8.3s
[CV] bootstrap=True, criterion=mse, max_depth=6, max_features=auto
, min_samples_leaf=4, min_samples_split=8, n_estimators=3
[CV]  bootstrap=True, criterion=mse, max_depth=6, max_features=aut
o, min_samples_leaf=3, min_samples_split=12, n_estimators=4, total
=    8.1s
[CV] bootstrap=True, criterion=mse, max_depth=6, max_features=auto
, min_samples_leaf=4, min_samples_split=8, n_estimators=3
[CV]  bootstrap=True, criterion=mse, max_depth=6, max_features=aut
o, min_samples_leaf=3, min_samples_split=10, n_estimators=8, total
=   16.0s
[CV] bootstrap=True, criterion=mse, max_depth=6, max_features=auto
, min_samples_leaf=4, min_samples_split=8, n_estimators=3
[CV]  bootstrap=True, criterion=mse, max_depth=6, max_features=aut
o, min_samples_leaf=3, min_samples_split=12, n_estimators=4, total
=    8.9s
[CV] bootstrap=True, criterion=mse, max_depth=6, max_features=auto
, min_samples_leaf=4, min_samples_split=8, n_estimators=3
[CV]  bootstrap=True, criterion=mse, max_depth=6, max_features=aut
o, min_samples_leaf=3, min_samples_split=10, n_estimators=8, total
=   16.0s
[CV]  bootstrap=True, criterion=mse, max_depth=6, max_features=aut
o, min_samples_leaf=3, min_samples_split=8, n_estimators=10, total
=   21.3s
[CV] bootstrap=True, criterion=mse, max_depth=6, max_features=auto
, min_samples_leaf=4, min_samples_split=8, n_estimators=4
[CV]  bootstrap=True, criterion=mse, max_depth=6, max_features=aut
o, min_samples_leaf=3, min_samples_split=10, n_estimators=8, total
=   15.8s
[CV]  bootstrap=True, criterion=mse, max_depth=6, max_features=aut
o, min_samples_leaf=3, min_samples_split=12, n_estimators=4, total
=    8.8s

[Parallel(n_jobs=-1)]: Done 901 tasks      | elapsed:  1.9min

[CV] bootstrap=True, criterion=mse, max_depth=6, max_features=auto
, min_samples_leaf=4, min_samples_split=8, n_estimators=4
[CV] bootstrap=True, criterion=mse, max_depth=6, max_features=auto
, min_samples_leaf=4, min_samples_split=8, n_estimators=4
[CV]  bootstrap=True, criterion=mse, max_depth=6, max_features=aut
o, min_samples_leaf=3, min_samples_split=10, n_estimators=8, total
=   16.1s
[CV] bootstrap=True, criterion=mse, max_depth=6, max_features=auto
, min_samples_leaf=4, min_samples_split=8, n_estimators=4
[CV]  bootstrap=True, criterion=mse, max_depth=6, max_features=aut
o, min_samples_leaf=3, min_samples_split=10, n_estimators=8, total
=   16.0s
[CV] bootstrap=True, criterion=mse, max_depth=6, max_features=auto
, min_samples_leaf=4, min_samples_split=8, n_estimators=4
[CV] bootstrap=True, criterion=mse, max_depth=6, max_features=auto
, min_samples_leaf=4, min_samples_split=8, n_estimators=5
[CV]  bootstrap=True, criterion=mse, max_depth=6, max_features=aut
o, min_samples_leaf=4, min_samples_split=8, n_estimators=2, total=
4.1s
```

```
[CV]  bootstrap=True, criterion=mse, max_depth=6, max_features=aut
o, min_samples_leaf=3, min_samples_split=10, n_estimators=9, total
=  18.1s
[CV] bootstrap=True, criterion=mse, max_depth=6, max_features=auto
, min_samples_leaf=4, min_samples_split=8, n_estimators=5
[CV]  bootstrap=True, criterion=mse, max_depth=6, max_features=aut
o, min_samples_leaf=3, min_samples_split=12, n_estimators=5, total
=  10.2s
[CV] bootstrap=True, criterion=mse, max_depth=6, max_features=auto
, min_samples_leaf=4, min_samples_split=8, n_estimators=5
[CV] bootstrap=True, criterion=mse, max_depth=6, max_features=auto
, min_samples_leaf=4, min_samples_split=8, n_estimators=5
[CV]  bootstrap=True, criterion=mse, max_depth=6, max_features=aut
o, min_samples_leaf=4, min_samples_split=8, n_estimators=2, total=
4.1s
[CV]  bootstrap=True, criterion=mse, max_depth=6, max_features=aut
o, min_samples_leaf=3, min_samples_split=12, n_estimators=5, total
=  11.1s
[CV] bootstrap=True, criterion=mse, max_depth=6, max_features=auto
, min_samples_leaf=4, min_samples_split=8, n_estimators=5
[CV]  bootstrap=True, criterion=mse, max_depth=6, max_features=aut
o, min_samples_leaf=4, min_samples_split=8, n_estimators=2, total=
4.8s
[CV]  bootstrap=True, criterion=mse, max_depth=6, max_features=aut
o, min_samples_leaf=4, min_samples_split=8, n_estimators=2, total=
4.6s
[CV] bootstrap=True, criterion=mse, max_depth=6, max_features=auto
, min_samples_leaf=4, min_samples_split=8, n_estimators=6
[CV] bootstrap=True, criterion=mse, max_depth=6, max_features=auto
, min_samples_leaf=4, min_samples_split=8, n_estimators=6
[CV]  bootstrap=True, criterion=mse, max_depth=6, max_features=aut
o, min_samples_leaf=3, min_samples_split=12, n_estimators=5, total
=  11.0s
[CV] bootstrap=True, criterion=mse, max_depth=6, max_features=auto
, min_samples_leaf=4, min_samples_split=8, n_estimators=6
[CV] bootstrap=True, criterion=mse, max_depth=6, max_features=auto
, min_samples_leaf=4, min_samples_split=8, n_estimators=6
[CV]  bootstrap=True, criterion=mse, max_depth=6, max_features=aut
o, min_samples_leaf=4, min_samples_split=8, n_estimators=2, total=
4.6s
[CV] bootstrap=True, criterion=mse, max_depth=6, max_features=auto
, min_samples_leaf=4, min_samples_split=8, n_estimators=6
[CV]  bootstrap=True, criterion=mse, max_depth=6, max_features=aut
o, min_samples_leaf=3, min_samples_split=10, n_estimators=9, total
=  18.0s
[CV] bootstrap=True, criterion=mse, max_depth=6, max_features=auto
, min_samples_leaf=4, min_samples_split=8, n_estimators=7
[CV]  bootstrap=True, criterion=mse, max_depth=6, max_features=aut
o, min_samples_leaf=3, min_samples_split=10, n_estimators=9, total
=  18.5s
[CV] bootstrap=True, criterion=mse, max_depth=6, max_features=auto
, min_samples_leaf=4, min_samples_split=8, n_estimators=7
[CV]  bootstrap=True, criterion=mse, max_depth=6, max_features=aut
o, min_samples_leaf=3, min_samples_split=12, n_estimators=5, total
```

```
=  11.2s
[CV]  bootstrap=True, criterion=mse, max_depth=6, max_features=aut
o, min_samples_leaf=3, min_samples_split=10, n_estimators=9, total
=  18.5s
[CV] bootstrap=True, criterion=mse, max_depth=6, max_features=auto
, min_samples_leaf=4, min_samples_split=8, n_estimators=7
[CV] bootstrap=True, criterion=mse, max_depth=6, max_features=auto
, min_samples_leaf=4, min_samples_split=8, n_estimators=7
[CV]  bootstrap=True, criterion=mse, max_depth=6, max_features=aut
o, min_samples_leaf=3, min_samples_split=12, n_estimators=5, total
=  11.7s
[CV] bootstrap=True, criterion=mse, max_depth=6, max_features=auto
, min_samples_leaf=4, min_samples_split=8, n_estimators=7
[CV]  bootstrap=True, criterion=mse, max_depth=6, max_features=aut
o, min_samples_leaf=4, min_samples_split=8, n_estimators=3, total=
6.2s
[CV] bootstrap=True, criterion=mse, max_depth=6, max_features=auto
, min_samples_leaf=4, min_samples_split=8, n_estimators=8
[CV]  bootstrap=True, criterion=mse, max_depth=6, max_features=aut
o, min_samples_leaf=4, min_samples_split=8, n_estimators=3, total=
6.2s
[CV]  bootstrap=True, criterion=mse, max_depth=6, max_features=aut
o, min_samples_leaf=3, min_samples_split=12, n_estimators=6, total
=  12.2s
[CV] bootstrap=True, criterion=mse, max_depth=6, max_features=auto
, min_samples_leaf=4, min_samples_split=8, n_estimators=8
[CV]  bootstrap=True, criterion=mse, max_depth=6, max_features=aut
o, min_samples_leaf=4, min_samples_split=8, n_estimators=3, total=
6.4s
[CV]  bootstrap=True, criterion=mse, max_depth=6, max_features=aut
o, min_samples_leaf=4, min_samples_split=8, n_estimators=3, total=
6.1s
[CV] bootstrap=True, criterion=mse, max_depth=6, max_features=auto
, min_samples_leaf=4, min_samples_split=8, n_estimators=8
[CV]  bootstrap=True, criterion=mse, max_depth=6, max_features=aut
o, min_samples_leaf=3, min_samples_split=10, n_estimators=9, total
=  19.6s
[CV]  bootstrap=True, criterion=mse, max_depth=6, max_features=aut
o, min_samples_leaf=3, min_samples_split=12, n_estimators=6, total
=  12.6s
[CV]  bootstrap=True, criterion=mse, max_depth=6, max_features=aut
o, min_samples_leaf=3, min_samples_split=12, n_estimators=6, total
=  12.5s
[CV] bootstrap=True, criterion=mse, max_depth=6, max_features=auto
, min_samples_leaf=4, min_samples_split=8, n_estimators=8
[CV] bootstrap=True, criterion=mse, max_depth=6, max_features=auto
, min_samples_leaf=4, min_samples_split=8, n_estimators=8
[CV] bootstrap=True, criterion=mse, max_depth=6, max_features=auto
, min_samples_leaf=4, min_samples_split=8, n_estimators=9
[CV] bootstrap=True, criterion=mse, max_depth=6, max_features=auto
, min_samples_leaf=4, min_samples_split=8, n_estimators=9
[CV] bootstrap=True, criterion=mse, max_depth=6, max_features=auto
, min_samples_leaf=4, min_samples_split=8, n_estimators=9
[CV]  bootstrap=True, criterion=mse, max_depth=6, max_features=aut
```

```
o, min_samples_leaf=3, min_samples_split=12, n_estimators=6, total
=  13.8s
[CV]  bootstrap=True, criterion=mse, max_depth=6, max_features=aut
o, min_samples_leaf=3, min_samples_split=12, n_estimators=6, total
=  13.3s
[CV] bootstrap=True, criterion=mse, max_depth=6, max_features=auto
, min_samples_leaf=4, min_samples_split=8, n_estimators=9
[CV]  bootstrap=True, criterion=mse, max_depth=6, max_features=aut
o, min_samples_leaf=3, min_samples_split=10, n_estimators=10, tota
l=  20.2s
[CV] bootstrap=True, criterion=mse, max_depth=6, max_features=auto
, min_samples_leaf=4, min_samples_split=8, n_estimators=9
[CV] bootstrap=True, criterion=mse, max_depth=6, max_features=auto
, min_samples_leaf=4, min_samples_split=8, n_estimators=10
[CV]  bootstrap=True, criterion=mse, max_depth=6, max_features=aut
o, min_samples_leaf=4, min_samples_split=8, n_estimators=3, total=
7.4s
[CV] bootstrap=True, criterion=mse, max_depth=6, max_features=auto
, min_samples_leaf=4, min_samples_split=8, n_estimators=10
[CV]  bootstrap=True, criterion=mse, max_depth=6, max_features=aut
o, min_samples_leaf=3, min_samples_split=12, n_estimators=7, total
=  14.3s
[CV] bootstrap=True, criterion=mse, max_depth=6, max_features=auto
, min_samples_leaf=4, min_samples_split=8, n_estimators=10
[CV]  bootstrap=True, criterion=mse, max_depth=6, max_features=aut
o, min_samples_leaf=4, min_samples_split=8, n_estimators=4, total=
8.3s
[CV] bootstrap=True, criterion=mse, max_depth=6, max_features=auto
, min_samples_leaf=4, min_samples_split=8, n_estimators=10
[CV]  bootstrap=True, criterion=mse, max_depth=6, max_features=aut
o, min_samples_leaf=3, min_samples_split=10, n_estimators=10, tota
l=  20.5s
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, min_samples_leaf=4, min_samples_split=8, n_estimators=10
[CV]  bootstrap=True, criterion=mse, max_depth=6, max_features=aut
o, min_samples_leaf=4, min_samples_split=8, n_estimators=4, total=
8.4s
[CV] bootstrap=True, criterion=mse, max_depth=6, max_features=auto
, min_samples_leaf=4, min_samples_split=10, n_estimators=2
[CV]  bootstrap=True, criterion=mse, max_depth=6, max_features=aut
o, min_samples_leaf=3, min_samples_split=10, n_estimators=10, tota
l=  21.8s
[CV] bootstrap=True, criterion=mse, max_depth=6, max_features=auto
, min_samples_leaf=4, min_samples_split=10, n_estimators=2
[CV]  bootstrap=True, criterion=mse, max_depth=6, max_features=aut
o, min_samples_leaf=3, min_samples_split=10, n_estimators=10, tota
l=  21.6s
[CV] bootstrap=True, criterion=mse, max_depth=6, max_features=auto
, min_samples_leaf=4, min_samples_split=10, n_estimators=2
[CV]  bootstrap=True, criterion=mse, max_depth=6, max_features=aut
o, min_samples_leaf=4, min_samples_split=8, n_estimators=4, total=
9.2s
[CV]  bootstrap=True, criterion=mse, max_depth=6, max_features=aut
o, min_samples_leaf=3, min_samples_split=12, n_estimators=7, total
```

```
=   15.5s
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, min_samples_leaf=4, min_samples_split=10, n_estimators=2
[CV]  bootstrap=True, criterion=mse, max_depth=6, max_features=aut
o, min_samples_leaf=3, min_samples_split=10, n_estimators=10, tota
l=   22.5s
[CV]  bootstrap=True, criterion=mse, max_depth=6, max_features=aut
o, min_samples_leaf=4, min_samples_split=8, n_estimators=4, total=
9.1s
[CV] bootstrap=True, criterion=mse, max_depth=6, max_features=auto
, min_samples_leaf=4, min_samples_split=10, n_estimators=2
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o, min_samples_leaf=4, min_samples_split=8, n_estimators=4, total=
9.7s
[CV] bootstrap=True, criterion=mse, max_depth=6, max_features=auto
, min_samples_leaf=4, min_samples_split=10, n_estimators=3
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, min_samples_leaf=4, min_samples_split=10, n_estimators=3
[CV]  bootstrap=True, criterion=mse, max_depth=6, max_features=aut
o, min_samples_leaf=3, min_samples_split=12, n_estimators=7, total
=   16.1s
[CV] bootstrap=True, criterion=mse, max_depth=6, max_features=auto
, min_samples_leaf=4, min_samples_split=10, n_estimators=3
[CV] bootstrap=True, criterion=mse, max_depth=6, max_features=auto
, min_samples_leaf=4, min_samples_split=10, n_estimators=3
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10.0s
[CV] bootstrap=True, criterion=mse, max_depth=6, max_features=auto
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[CV]  bootstrap=True, criterion=mse, max_depth=6, max_features=aut
o, min_samples_leaf=3, min_samples_split=12, n_estimators=7, total
=   16.4s
[CV] bootstrap=True, criterion=mse, max_depth=6, max_features=auto
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[CV]  bootstrap=True, criterion=mse, max_depth=6, max_features=aut
o, min_samples_leaf=3, min_samples_split=12, n_estimators=7, total
=   16.4s
[CV] bootstrap=True, criterion=mse, max_depth=6, max_features=auto
, min_samples_leaf=4, min_samples_split=10, n_estimators=4
[CV]  bootstrap=True, criterion=mse, max_depth=6, max_features=aut
o, min_samples_leaf=3, min_samples_split=12, n_estimators=8, total
=   16.3s
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o, min_samples_leaf=3, min_samples_split=12, n_estimators=8, total
=   16.6s
[CV] bootstrap=True, criterion=mse, max_depth=6, max_features=auto
, min_samples_leaf=4, min_samples_split=10, n_estimators=4
[CV]  bootstrap=True, criterion=mse, max_depth=6, max_features=aut
o, min_samples_leaf=4, min_samples_split=8, n_estimators=5, total=
10.2s
[CV]  bootstrap=True, criterion=mse, max_depth=6, max_features=aut
```

```
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=    4.2s
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, min_samples_leaf=4, min_samples_split=10, n_estimators=5
[CV]  bootstrap=True, criterion=mse, max_depth=6, max_features=aut
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10.4s
[CV] bootstrap=True, criterion=mse, max_depth=6, max_features=auto
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o, min_samples_leaf=4, min_samples_split=8, n_estimators=5, total=
10.4s
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[CV]  bootstrap=True, criterion=mse, max_depth=6, max_features=aut
o, min_samples_leaf=4, min_samples_split=8, n_estimators=5, total=
10.4s
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o, min_samples_leaf=4, min_samples_split=10, n_estimators=2, total
=    4.7s
[CV]  bootstrap=True, criterion=mse, max_depth=6, max_features=aut
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=    4.9s
[CV] bootstrap=True, criterion=mse, max_depth=6, max_features=auto
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, min_samples_leaf=4, min_samples_split=10, n_estimators=6
[CV]  bootstrap=True, criterion=mse, max_depth=6, max_features=aut
o, min_samples_leaf=4, min_samples_split=10, n_estimators=2, total
=    4.5s
[CV] bootstrap=True, criterion=mse, max_depth=6, max_features=auto
, min_samples_leaf=4, min_samples_split=10, n_estimators=6
[CV]  bootstrap=True, criterion=mse, max_depth=6, max_features=aut
o, min_samples_leaf=3, min_samples_split=12, n_estimators=8, total
=   18.2s
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, min_samples_leaf=4, min_samples_split=10, n_estimators=6
[CV]  bootstrap=True, criterion=mse, max_depth=6, max_features=aut
o, min_samples_leaf=3, min_samples_split=12, n_estimators=8, total
=   19.0s
[CV] bootstrap=True, criterion=mse, max_depth=6, max_features=auto
, min_samples_leaf=4, min_samples_split=10, n_estimators=6
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o, min_samples_leaf=4, min_samples_split=10, n_estimators=2, total
=    5.1s
[CV]  bootstrap=True, criterion=mse, max_depth=6, max_features=aut
o, min_samples_leaf=3, min_samples_split=12, n_estimators=8, total
=   18.2s
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```

```
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=  19.1s
[CV]  bootstrap=True, criterion=mse, max_depth=6, max_features=aut
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=  19.3s
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=  19.0s
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12.9s
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o, min_samples_leaf=3, min_samples_split=12, n_estimators=9, total
=  19.9s
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o, min_samples_leaf=4, min_samples_split=10, n_estimators=3, total
=   6.7s
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o, min_samples_leaf=4, min_samples_split=10, n_estimators=3, total
=   6.2s
[CV]  bootstrap=True, criterion=mse, max_depth=6, max_features=aut
o, min_samples_leaf=4, min_samples_split=8, n_estimators=6, total=
13.5s
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, min_samples_leaf=4, min_samples_split=10, n_estimators=8
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=   6.8s
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o, min_samples_leaf=3, min_samples_split=12, n_estimators=9, total
=  20.1s
[CV]  bootstrap=True, criterion=mse, max_depth=6, max_features=aut
o, min_samples_leaf=4, min_samples_split=8, n_estimators=6, total=
14.0s
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[CV]  bootstrap=True, criterion=mse, max_depth=6, max_features=aut
```

```
o, min_samples_leaf=4, min_samples_split=8, n_estimators=6, total=
13.9s
[CV]  bootstrap=True, criterion=mse, max_depth=6, max_features=aut
o, min_samples_leaf=4, min_samples_split=10, n_estimators=3, total
=   7.3s
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o, min_samples_leaf=4, min_samples_split=10, n_estimators=3, total
=   8.0s
[CV] bootstrap=True, criterion=mse, max_depth=6, max_features=auto
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l=  20.6s
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14.3s
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l=  20.9s
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[CV]  bootstrap=True, criterion=mse, max_depth=6, max_features=aut
```

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l=  21.7s
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=   8.8s
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=   8.3s
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=   9.6s
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```

```
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16.8s
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=   9.9s
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=  10.5s
[CV] bootstrap=True, criterion=mse, max_depth=6, max_features=auto
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o, min_samples_leaf=4, min_samples_split=12, n_estimators=2, total
=   4.4s
[CV] bootstrap=True, criterion=mse, max_depth=6, max_features=auto
, min_samples_leaf=4, min_samples_split=12, n_estimators=6
[CV]  bootstrap=True, criterion=mse, max_depth=6, max_features=aut
o, min_samples_leaf=4, min_samples_split=12, n_estimators=2, total
=   4.5s
[CV] bootstrap=True, criterion=mse, max_depth=6, max_features=auto
, min_samples_leaf=4, min_samples_split=12, n_estimators=6
[CV]  bootstrap=True, criterion=mse, max_depth=6, max_features=aut
o, min_samples_leaf=4, min_samples_split=12, n_estimators=2, total
=   5.2s
[CV]  bootstrap=True, criterion=mse, max_depth=6, max_features=aut
```

```
o, min_samples_leaf=4, min_samples_split=8, n_estimators=9, total=
18.2s
[CV] bootstrap=True, criterion=mse, max_depth=6, max_features=auto
, min_samples_leaf=4, min_samples_split=12, n_estimators=6
[CV]  bootstrap=True, criterion=mse, max_depth=6, max_features=aut
o, min_samples_leaf=4, min_samples_split=10, n_estimators=5, total
=   10.9s
[CV]  bootstrap=True, criterion=mse, max_depth=6, max_features=aut
o, min_samples_leaf=4, min_samples_split=12, n_estimators=2, total
=    5.0s
[CV] bootstrap=True, criterion=mse, max_depth=6, max_features=auto
, min_samples_leaf=4, min_samples_split=12, n_estimators=6
[CV] bootstrap=True, criterion=mse, max_depth=6, max_features=auto
, min_samples_leaf=4, min_samples_split=12, n_estimators=7
[CV] bootstrap=True, criterion=mse, max_depth=6, max_features=auto
, min_samples_leaf=4, min_samples_split=12, n_estimators=7
[CV]  bootstrap=True, criterion=mse, max_depth=6, max_features=aut
o, min_samples_leaf=4, min_samples_split=8, n_estimators=9, total=
18.8s
[CV] bootstrap=True, criterion=mse, max_depth=6, max_features=auto
, min_samples_leaf=4, min_samples_split=12, n_estimators=7
[CV]  bootstrap=True, criterion=mse, max_depth=6, max_features=aut
o, min_samples_leaf=4, min_samples_split=8, n_estimators=9, total=
19.0s
[CV] bootstrap=True, criterion=mse, max_depth=6, max_features=auto
, min_samples_leaf=4, min_samples_split=12, n_estimators=7
[CV]  bootstrap=True, criterion=mse, max_depth=6, max_features=aut
o, min_samples_leaf=4, min_samples_split=8, n_estimators=9, total=
20.2s
[CV] bootstrap=True, criterion=mse, max_depth=6, max_features=auto
, min_samples_leaf=4, min_samples_split=12, n_estimators=7
[CV]  bootstrap=True, criterion=mse, max_depth=6, max_features=aut
o, min_samples_leaf=4, min_samples_split=8, n_estimators=9, total=
19.4s
[CV] bootstrap=True, criterion=mse, max_depth=6, max_features=auto
, min_samples_leaf=4, min_samples_split=12, n_estimators=8
[CV]  bootstrap=True, criterion=mse, max_depth=6, max_features=aut
o, min_samples_leaf=4, min_samples_split=12, n_estimators=3, total
=    6.3s
[CV]  bootstrap=True, criterion=mse, max_depth=6, max_features=aut
o, min_samples_leaf=4, min_samples_split=10, n_estimators=6, total
=   12.8s
[CV] bootstrap=True, criterion=mse, max_depth=6, max_features=auto
, min_samples_leaf=4, min_samples_split=12, n_estimators=8
[CV] bootstrap=True, criterion=mse, max_depth=6, max_features=auto
, min_samples_leaf=4, min_samples_split=12, n_estimators=8
[CV]  bootstrap=True, criterion=mse, max_depth=6, max_features=aut
o, min_samples_leaf=4, min_samples_split=10, n_estimators=6, total
=   12.6s
[CV] bootstrap=True, criterion=mse, max_depth=6, max_features=auto
, min_samples_leaf=4, min_samples_split=12, n_estimators=8
[CV]  bootstrap=True, criterion=mse, max_depth=6, max_features=aut
o, min_samples_leaf=4, min_samples_split=12, n_estimators=3, total
=    6.3s
```

```
[CV]  bootstrap=True, criterion=mse, max_depth=6, max_features=aut
o, min_samples_leaf=4, min_samples_split=12, n_estimators=3, total
=    7.2s
[CV]  bootstrap=True, criterion=mse, max_depth=6, max_features=aut
o, min_samples_leaf=4, min_samples_split=12, n_estimators=3, total
=    6.3s
[CV] bootstrap=True, criterion=mse, max_depth=6, max_features=auto
, min_samples_leaf=4, min_samples_split=12, n_estimators=8
[CV] bootstrap=True, criterion=mse, max_depth=6, max_features=auto
, min_samples_leaf=4, min_samples_split=12, n_estimators=9
[CV]  bootstrap=True, criterion=mse, max_depth=6, max_features=aut
o, min_samples_leaf=4, min_samples_split=10, n_estimators=6, total
=   13.8s
[CV]  bootstrap=True, criterion=mse, max_depth=6, max_features=aut
o, min_samples_leaf=4, min_samples_split=10, n_estimators=6, total
=   13.2s
[CV] bootstrap=True, criterion=mse, max_depth=6, max_features=auto
, min_samples_leaf=4, min_samples_split=12, n_estimators=9
[CV]  bootstrap=True, criterion=mse, max_depth=6, max_features=aut
o, min_samples_leaf=4, min_samples_split=8, n_estimators=10, total
=   20.7s
[CV] bootstrap=True, criterion=mse, max_depth=6, max_features=auto
, min_samples_leaf=4, min_samples_split=12, n_estimators=9
[CV] bootstrap=True, criterion=mse, max_depth=6, max_features=auto
, min_samples_leaf=4, min_samples_split=12, n_estimators=9
[CV]  bootstrap=True, criterion=mse, max_depth=6, max_features=aut
o, min_samples_leaf=4, min_samples_split=12, n_estimators=3, total
=    7.3s
[CV] bootstrap=True, criterion=mse, max_depth=6, max_features=auto
, min_samples_leaf=4, min_samples_split=12, n_estimators=9
[CV] bootstrap=True, criterion=mse, max_depth=6, max_features=auto
, min_samples_leaf=4, min_samples_split=12, n_estimators=10
[CV]  bootstrap=True, criterion=mse, max_depth=6, max_features=aut
o, min_samples_leaf=4, min_samples_split=10, n_estimators=6, total
=   13.7s
[CV] bootstrap=True, criterion=mse, max_depth=6, max_features=auto
, min_samples_leaf=4, min_samples_split=12, n_estimators=10
[CV]  bootstrap=True, criterion=mse, max_depth=6, max_features=aut
o, min_samples_leaf=4, min_samples_split=8, n_estimators=10, total
=   20.4s
[CV] bootstrap=True, criterion=mse, max_depth=6, max_features=auto
, min_samples_leaf=4, min_samples_split=12, n_estimators=10
[CV]  bootstrap=True, criterion=mse, max_depth=6, max_features=aut
o, min_samples_leaf=4, min_samples_split=8, n_estimators=10, total
=   20.5s
[CV] bootstrap=True, criterion=mse, max_depth=6, max_features=auto
, min_samples_leaf=4, min_samples_split=12, n_estimators=10
[CV]  bootstrap=True, criterion=mse, max_depth=6, max_features=aut
o, min_samples_leaf=4, min_samples_split=8, n_estimators=10, total
=   21.0s
[CV] bootstrap=True, criterion=mse, max_depth=6, max_features=auto
, min_samples_leaf=4, min_samples_split=12, n_estimators=10
[CV]  bootstrap=True, criterion=mse, max_depth=6, max_features=aut
o, min_samples_leaf=4, min_samples_split=10, n_estimators=7, total
```

```
=   14.8s
[CV]  bootstrap=True, criterion=mse, max_depth=6, max_features=aut
o, min_samples_leaf=4, min_samples_split=8, n_estimators=10, total
=   22.4s
[CV] bootstrap=True, criterion=mse, max_depth=6, max_features=auto
, min_samples_leaf=5, min_samples_split=8, n_estimators=2
[CV]  bootstrap=True, criterion=mse, max_depth=6, max_features=aut
o, min_samples_leaf=4, min_samples_split=12, n_estimators=4, total
=    8.1s
[CV] bootstrap=True, criterion=mse, max_depth=6, max_features=auto
, min_samples_leaf=5, min_samples_split=8, n_estimators=2
[CV]  bootstrap=True, criterion=mse, max_depth=6, max_features=aut
o, min_samples_leaf=4, min_samples_split=12, n_estimators=4, total
=    8.1s
[CV] bootstrap=True, criterion=mse, max_depth=6, max_features=auto
, min_samples_leaf=5, min_samples_split=8, n_estimators=2
[CV] bootstrap=True, criterion=mse, max_depth=6, max_features=auto
, min_samples_leaf=5, min_samples_split=8, n_estimators=2
[CV]  bootstrap=True, criterion=mse, max_depth=6, max_features=aut
o, min_samples_leaf=4, min_samples_split=12, n_estimators=4, total
=    8.4s
[CV] bootstrap=True, criterion=mse, max_depth=6, max_features=auto
, min_samples_leaf=5, min_samples_split=8, n_estimators=2
[CV]  bootstrap=True, criterion=mse, max_depth=6, max_features=aut
o, min_samples_leaf=4, min_samples_split=12, n_estimators=4, total
=    8.5s
[CV] bootstrap=True, criterion=mse, max_depth=6, max_features=auto
, min_samples_leaf=5, min_samples_split=8, n_estimators=3
[CV]  bootstrap=True, criterion=mse, max_depth=6, max_features=aut
o, min_samples_leaf=4, min_samples_split=10, n_estimators=7, total
=   15.0s
[CV]  bootstrap=True, criterion=mse, max_depth=6, max_features=aut
o, min_samples_leaf=4, min_samples_split=10, n_estimators=7, total
=   15.3s
[CV] bootstrap=True, criterion=mse, max_depth=6, max_features=auto
, min_samples_leaf=5, min_samples_split=8, n_estimators=3
[CV] bootstrap=True, criterion=mse, max_depth=6, max_features=auto
, min_samples_leaf=5, min_samples_split=8, n_estimators=3
[CV]  bootstrap=True, criterion=mse, max_depth=6, max_features=aut
o, min_samples_leaf=4, min_samples_split=10, n_estimators=7, total
=   15.3s
[CV] bootstrap=True, criterion=mse, max_depth=6, max_features=auto
, min_samples_leaf=5, min_samples_split=8, n_estimators=3
[CV]  bootstrap=True, criterion=mse, max_depth=6, max_features=aut
o, min_samples_leaf=4, min_samples_split=12, n_estimators=4, total
=    9.5s
[CV] bootstrap=True, criterion=mse, max_depth=6, max_features=auto
, min_samples_leaf=5, min_samples_split=8, n_estimators=3
[CV]  bootstrap=True, criterion=mse, max_depth=6, max_features=aut
o, min_samples_leaf=4, min_samples_split=10, n_estimators=7, total
=   16.0s
[CV] bootstrap=True, criterion=mse, max_depth=6, max_features=auto
, min_samples_leaf=5, min_samples_split=8, n_estimators=4
[CV]  bootstrap=True, criterion=mse, max_depth=6, max_features=aut
```

```
o, min_samples_leaf=4, min_samples_split=12, n_estimators=5, total
=  10.5s
[CV]  bootstrap=True, criterion=mse, max_depth=6, max_features=aut
o, min_samples_leaf=4, min_samples_split=12, n_estimators=5, total
=  10.2s
[CV] bootstrap=True, criterion=mse, max_depth=6, max_features=auto
, min_samples_leaf=5, min_samples_split=8, n_estimators=4
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o, min_samples_leaf=4, min_samples_split=10, n_estimators=8, total
=  16.6s
[CV]  bootstrap=True, criterion=mse, max_depth=6, max_features=aut
o, min_samples_leaf=4, min_samples_split=10, n_estimators=8, total
=  16.4s
[CV] bootstrap=True, criterion=mse, max_depth=6, max_features=auto
, min_samples_leaf=5, min_samples_split=8, n_estimators=4
[CV] bootstrap=True, criterion=mse, max_depth=6, max_features=auto
, min_samples_leaf=5, min_samples_split=8, n_estimators=4
[CV] bootstrap=True, criterion=mse, max_depth=6, max_features=auto
, min_samples_leaf=5, min_samples_split=8, n_estimators=4
[CV]  bootstrap=True, criterion=mse, max_depth=6, max_features=aut
o, min_samples_leaf=4, min_samples_split=10, n_estimators=8, total
=  16.9s
[CV] bootstrap=True, criterion=mse, max_depth=6, max_features=auto
, min_samples_leaf=5, min_samples_split=8, n_estimators=5
[CV]  bootstrap=True, criterion=mse, max_depth=6, max_features=aut
o, min_samples_leaf=4, min_samples_split=12, n_estimators=5, total
=  10.6s
[CV]  bootstrap=True, criterion=mse, max_depth=6, max_features=aut
o, min_samples_leaf=4, min_samples_split=12, n_estimators=5, total
=  10.4s
[CV]  bootstrap=True, criterion=mse, max_depth=6, max_features=aut
o, min_samples_leaf=5, min_samples_split=8, n_estimators=2, total=
4.2s
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, min_samples_leaf=5, min_samples_split=8, n_estimators=5
[CV]  bootstrap=True, criterion=mse, max_depth=6, max_features=aut
o, min_samples_leaf=4, min_samples_split=12, n_estimators=5, total
=  10.5s
[CV] bootstrap=True, criterion=mse, max_depth=6, max_features=auto
, min_samples_leaf=5, min_samples_split=8, n_estimators=5
[CV]  bootstrap=True, criterion=mse, max_depth=6, max_features=aut
o, min_samples_leaf=5, min_samples_split=8, n_estimators=2, total=
4.3s
[CV]  bootstrap=True, criterion=mse, max_depth=6, max_features=aut
o, min_samples_leaf=5, min_samples_split=8, n_estimators=2, total=
4.6s
[CV]  bootstrap=True, criterion=mse, max_depth=6, max_features=aut
o, min_samples_leaf=4, min_samples_split=10, n_estimators=8, total
=  17.6s
[CV] bootstrap=True, criterion=mse, max_depth=6, max_features=auto
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[CV] bootstrap=True, criterion=mse, max_depth=6, max_features=auto
```

, min_samples_leaf=5, min_samples_split=8, n_estimators=6
[CV] bootstrap=True, criterion=mse, max_depth=6, max_features=auto
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o, min_samples_leaf=5, min_samples_split=8, n_estimators=2, total=
4.2s
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o, min_samples_leaf=5, min_samples_split=8, n_estimators=2, total=
5.1s
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, min_samples_leaf=5, min_samples_split=8, n_estimators=6
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o, min_samples_leaf=4, min_samples_split=10, n_estimators=8, total
= 18.6s
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o, min_samples_leaf=4, min_samples_split=12, n_estimators=6, total
= 12.5s
[CV] bootstrap=True, criterion=mse, max_depth=6, max_features=auto
, min_samples_leaf=5, min_samples_split=8, n_estimators=7
[CV] bootstrap=True, criterion=mse, max_depth=6, max_features=aut
o, min_samples_leaf=4, min_samples_split=10, n_estimators=9, total
= 19.3s
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, min_samples_leaf=5, min_samples_split=8, n_estimators=7
[CV] bootstrap=True, criterion=mse, max_depth=6, max_features=aut
o, min_samples_leaf=4, min_samples_split=10, n_estimators=9, total
= 19.5s
[CV] bootstrap=True, criterion=mse, max_depth=6, max_features=auto
, min_samples_leaf=5, min_samples_split=8, n_estimators=7
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o, min_samples_leaf=4, min_samples_split=12, n_estimators=6, total
= 12.7s
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o, min_samples_leaf=4, min_samples_split=12, n_estimators=6, total
= 12.5s
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o, min_samples_leaf=4, min_samples_split=10, n_estimators=9, total
= 19.9s
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o, min_samples_leaf=5, min_samples_split=8, n_estimators=3, total=
6.3s
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o, min_samples_leaf=4, min_samples_split=12, n_estimators=6, total
= 13.2s
[CV] bootstrap=True, criterion=mse, max_depth=6, max_features=aut
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6.6s
[CV] bootstrap=True, criterion=mse, max_depth=6, max_features=auto
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[CV] bootstrap=True, criterion=mse, max_depth=6, max_features=aut
o, min_samples_leaf=4, min_samples_split=10, n_estimators=9, total
= 20.1s
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, min_samples_leaf=5, min_samples_split=8, n_estimators=9
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o, min_samples_leaf=4, min_samples_split=12, n_estimators=6, total
= 14.3s
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[CV] bootstrap=True, criterion=mse, max_depth=6, max_features=aut
o, min_samples_leaf=4, min_samples_split=10, n_estimators=10, tota
l= 20.4s
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o, min_samples_leaf=5, min_samples_split=8, n_estimators=3, total=
6.6s
[CV] bootstrap=True, criterion=mse, max_depth=6, max_features=aut
o, min_samples_leaf=4, min_samples_split=10, n_estimators=9, total
= 21.2s
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6.8s
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[CV] bootstrap=True, criterion=mse, max_depth=6, max_features=aut
o, min_samples_leaf=4, min_samples_split=10, n_estimators=10, tota
l= 20.1s
[CV] bootstrap=True, criterion=mse, max_depth=6, max_features=aut
o, min_samples_leaf=4, min_samples_split=10, n_estimators=10, tota
l= 20.6s
[CV] bootstrap=True, criterion=mse, max_depth=6, max_features=auto
, min_samples_leaf=5, min_samples_split=8, n_estimators=10
[CV] bootstrap=True, criterion=mse, max_depth=6, max_features=aut
o, min_samples_leaf=5, min_samples_split=8, n_estimators=3, total=
7.7s
[CV] bootstrap=True, criterion=mse, max_depth=6, max_features=auto
, min_samples_leaf=5, min_samples_split=8, n_estimators=10

```
[CV]  bootstrap=True, criterion=mse, max_depth=6, max_features=aut
o, min_samples_leaf=4, min_samples_split=10, n_estimators=10, tota
l=  20.9s
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, min_samples_leaf=5, min_samples_split=8, n_estimators=10
[CV] bootstrap=True, criterion=mse, max_depth=6, max_features=auto
, min_samples_leaf=5, min_samples_split=8, n_estimators=10
[CV]  bootstrap=True, criterion=mse, max_depth=6, max_features=aut
o, min_samples_leaf=4, min_samples_split=12, n_estimators=7, total
=  14.6s
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o, min_samples_leaf=4, min_samples_split=10, n_estimators=10, tota
l=  22.4s
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o, min_samples_leaf=4, min_samples_split=12, n_estimators=7, total
=  16.1s
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, min_samples_leaf=5, min_samples_split=10, n_estimators=2
[CV]  bootstrap=True, criterion=mse, max_depth=6, max_features=aut
o, min_samples_leaf=4, min_samples_split=12, n_estimators=7, total
=  16.1s
[CV] bootstrap=True, criterion=mse, max_depth=6, max_features=auto
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[CV]  bootstrap=True, criterion=mse, max_depth=6, max_features=aut
o, min_samples_leaf=5, min_samples_split=8, n_estimators=4, total=
9.0s
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, min_samples_leaf=5, min_samples_split=10, n_estimators=2
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8.2s
[CV] bootstrap=True, criterion=mse, max_depth=6, max_features=auto
, min_samples_leaf=5, min_samples_split=10, n_estimators=3
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o, min_samples_leaf=5, min_samples_split=8, n_estimators=4, total=
8.5s
[CV] bootstrap=True, criterion=mse, max_depth=6, max_features=auto
, min_samples_leaf=5, min_samples_split=10, n_estimators=3
[CV]  bootstrap=True, criterion=mse, max_depth=6, max_features=aut
o, min_samples_leaf=4, min_samples_split=12, n_estimators=7, total
=  15.9s
[CV]  bootstrap=True, criterion=mse, max_depth=6, max_features=aut
o, min_samples_leaf=5, min_samples_split=8, n_estimators=4, total=
8.3s
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, min_samples_leaf=5, min_samples_split=10, n_estimators=3
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, min_samples_leaf=5, min_samples_split=10, n_estimators=3
[CV]  bootstrap=True, criterion=mse, max_depth=6, max_features=aut
o, min_samples_leaf=4, min_samples_split=12, n_estimators=7, total
```

```
=   15.9s
[CV] bootstrap=True, criterion=mse, max_depth=6, max_features=auto
, min_samples_leaf=5, min_samples_split=10, n_estimators=3
[CV]  bootstrap=True, criterion=mse, max_depth=6, max_features=aut
o, min_samples_leaf=5, min_samples_split=8, n_estimators=4, total=
9.1s
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=   16.9s
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[CV]  bootstrap=True, criterion=mse, max_depth=6, max_features=aut
o, min_samples_leaf=5, min_samples_split=10, n_estimators=2, total
=    4.2s
[CV] bootstrap=True, criterion=mse, max_depth=6, max_features=auto
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=   16.7s
[CV] bootstrap=True, criterion=mse, max_depth=6, max_features=auto
, min_samples_leaf=5, min_samples_split=10, n_estimators=4
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10.2s
[CV]  bootstrap=True, criterion=mse, max_depth=6, max_features=aut
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=   18.1s
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10.5s
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=   17.6s
[CV] bootstrap=True, criterion=mse, max_depth=6, max_features=auto
, min_samples_leaf=5, min_samples_split=10, n_estimators=5
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10.4s
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, min_samples_leaf=5, min_samples_split=10, n_estimators=5
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[CV]  bootstrap=True, criterion=mse, max_depth=6, max_features=aut
```

```
o, min_samples_leaf=5, min_samples_split=8, n_estimators=5, total=
11.0s
[CV]  bootstrap=True, criterion=mse, max_depth=6, max_features=aut
o, min_samples_leaf=5, min_samples_split=8, n_estimators=5, total=
11.4s
[CV]  bootstrap=True, criterion=mse, max_depth=6, max_features=aut
o, min_samples_leaf=5, min_samples_split=10, n_estimators=2, total
=   4.5s
[CV] bootstrap=True, criterion=mse, max_depth=6, max_features=auto
, min_samples_leaf=5, min_samples_split=10, n_estimators=6
[CV]  bootstrap=True, criterion=mse, max_depth=6, max_features=aut
o, min_samples_leaf=4, min_samples_split=12, n_estimators=8, total
=  18.6s
[CV] bootstrap=True, criterion=mse, max_depth=6, max_features=auto
, min_samples_leaf=5, min_samples_split=10, n_estimators=6
[CV] bootstrap=True, criterion=mse, max_depth=6, max_features=auto
, min_samples_leaf=5, min_samples_split=10, n_estimators=6
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o, min_samples_leaf=5, min_samples_split=10, n_estimators=2, total
=   4.7s
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=   4.6s
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, min_samples_leaf=5, min_samples_split=10, n_estimators=6
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o, min_samples_leaf=4, min_samples_split=12, n_estimators=9, total
=  19.0s
[CV]  bootstrap=True, criterion=mse, max_depth=6, max_features=aut
o, min_samples_leaf=4, min_samples_split=12, n_estimators=9, total
=  19.1s
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, min_samples_leaf=5, min_samples_split=10, n_estimators=7
[CV]  bootstrap=True, criterion=mse, max_depth=6, max_features=aut
o, min_samples_leaf=4, min_samples_split=12, n_estimators=9, total
=  18.7s
[CV] bootstrap=True, criterion=mse, max_depth=6, max_features=auto
, min_samples_leaf=5, min_samples_split=10, n_estimators=7
[CV]  bootstrap=True, criterion=mse, max_depth=6, max_features=aut
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12.8s
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, min_samples_leaf=5, min_samples_split=10, n_estimators=7
[CV]  bootstrap=True, criterion=mse, max_depth=6, max_features=aut
o, min_samples_leaf=5, min_samples_split=10, n_estimators=3, total
=   6.2s
[CV]  bootstrap=True, criterion=mse, max_depth=6, max_features=aut
o, min_samples_leaf=4, min_samples_split=12, n_estimators=9, total
```

```
=   20.1s
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o, min_samples_leaf=5, min_samples_split=8, n_estimators=6, total=
12.9s
[CV] bootstrap=True, criterion=mse, max_depth=6, max_features=auto
, min_samples_leaf=5, min_samples_split=10, n_estimators=8
[CV]  bootstrap=True, criterion=mse, max_depth=6, max_features=aut
o, min_samples_leaf=5, min_samples_split=8, n_estimators=6, total=
13.1s
[CV]  bootstrap=True, criterion=mse, max_depth=6, max_features=aut
o, min_samples_leaf=5, min_samples_split=10, n_estimators=3, total
=   6.3s
[CV] bootstrap=True, criterion=mse, max_depth=6, max_features=auto
, min_samples_leaf=5, min_samples_split=10, n_estimators=8
[CV] bootstrap=True, criterion=mse, max_depth=6, max_features=auto
, min_samples_leaf=5, min_samples_split=10, n_estimators=8
[CV]  bootstrap=True, criterion=mse, max_depth=6, max_features=aut
o, min_samples_leaf=5, min_samples_split=10, n_estimators=3, total
=   6.2s
[CV] bootstrap=True, criterion=mse, max_depth=6, max_features=auto
, min_samples_leaf=5, min_samples_split=10, n_estimators=8
[CV]  bootstrap=True, criterion=mse, max_depth=6, max_features=aut
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=   6.5s
[CV] bootstrap=True, criterion=mse, max_depth=6, max_features=auto
, min_samples_leaf=5, min_samples_split=10, n_estimators=9
[CV]  bootstrap=True, criterion=mse, max_depth=6, max_features=aut
o, min_samples_leaf=4, min_samples_split=12, n_estimators=9, total
=   20.8s
[CV] bootstrap=True, criterion=mse, max_depth=6, max_features=auto
, min_samples_leaf=5, min_samples_split=10, n_estimators=9
[CV]  bootstrap=True, criterion=mse, max_depth=6, max_features=aut
o, min_samples_leaf=5, min_samples_split=8, n_estimators=6, total=
13.6s
[CV] bootstrap=True, criterion=mse, max_depth=6, max_features=auto
, min_samples_leaf=5, min_samples_split=10, n_estimators=9
[CV] bootstrap=True, criterion=mse, max_depth=6, max_features=auto
, min_samples_leaf=5, min_samples_split=10, n_estimators=9
[CV]  bootstrap=True, criterion=mse, max_depth=6, max_features=aut
o, min_samples_leaf=5, min_samples_split=10, n_estimators=3, total
=   6.9s
[CV]  bootstrap=True, criterion=mse, max_depth=6, max_features=aut
o, min_samples_leaf=5, min_samples_split=8, n_estimators=6, total=
14.5s
[CV] bootstrap=True, criterion=mse, max_depth=6, max_features=auto
, min_samples_leaf=5, min_samples_split=10, n_estimators=9
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, min_samples_leaf=5, min_samples_split=10, n_estimators=10
[CV]  bootstrap=True, criterion=mse, max_depth=6, max_features=aut
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l=   21.0s
[CV]  bootstrap=True, criterion=mse, max_depth=6, max_features=aut
```

```
o, min_samples_leaf=4, min_samples_split=12, n_estimators=10, tota
l=  21.2s
[CV] bootstrap=True, criterion=mse, max_depth=6, max_features=auto
, min_samples_leaf=5, min_samples_split=10, n_estimators=10
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, min_samples_leaf=5, min_samples_split=10, n_estimators=10
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o, min_samples_leaf=4, min_samples_split=12, n_estimators=10, tota
l=  20.8s
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o, min_samples_leaf=4, min_samples_split=12, n_estimators=10, tota
l=  22.8s
[CV]  bootstrap=True, criterion=mse, max_depth=6, max_features=aut
o, min_samples_leaf=5, min_samples_split=8, n_estimators=7, total=
14.6s
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[CV]  bootstrap=True, criterion=mse, max_depth=6, max_features=aut
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16.0s
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o, min_samples_leaf=5, min_samples_split=8, n_estimators=7, total=
15.4s
[CV] bootstrap=True, criterion=mse, max_depth=6, max_features=auto
, min_samples_leaf=5, min_samples_split=12, n_estimators=2
[CV]  bootstrap=True, criterion=mse, max_depth=6, max_features=aut
o, min_samples_leaf=5, min_samples_split=10, n_estimators=4, total
=   9.6s
[CV]  bootstrap=True, criterion=mse, max_depth=6, max_features=aut
o, min_samples_leaf=5, min_samples_split=10, n_estimators=4, total
=   8.5s
[CV]  bootstrap=True, criterion=mse, max_depth=6, max_features=aut
o, min_samples_leaf=5, min_samples_split=10, n_estimators=4, total
=   8.3s
[CV] bootstrap=True, criterion=mse, max_depth=6, max_features=auto
, min_samples_leaf=5, min_samples_split=12, n_estimators=2
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o, min_samples_leaf=5, min_samples_split=8, n_estimators=7, total=
15.6s
[CV] bootstrap=True, criterion=mse, max_depth=6, max_features=auto
, min_samples_leaf=5, min_samples_split=12, n_estimators=3
[CV]  bootstrap=True, criterion=mse, max_depth=6, max_features=aut
o, min_samples_leaf=5, min_samples_split=10, n_estimators=4, total
```

```
=    8.5s
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o, min_samples_leaf=5, min_samples_split=10, n_estimators=4, total
=    8.4s
[CV] bootstrap=True, criterion=mse, max_depth=6, max_features=auto
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16.6s
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16.8s
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=    4.1s
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17.5s
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o, min_samples_leaf=5, min_samples_split=10, n_estimators=5, total
=   10.3s
[CV] bootstrap=True, criterion=mse, max_depth=6, max_features=auto
, min_samples_leaf=5, min_samples_split=12, n_estimators=5
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, min_samples_leaf=5, min_samples_split=12, n_estimators=5
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17.7s
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```

```
=   10.5s
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=    4.7s
[CV] bootstrap=True, criterion=mse, max_depth=6, max_features=auto
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o, min_samples_leaf=5, min_samples_split=10, n_estimators=5, total
=   11.3s
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o, min_samples_leaf=5, min_samples_split=10, n_estimators=5, total
=   11.4s
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o, min_samples_leaf=5, min_samples_split=12, n_estimators=2, total
=    4.5s
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=    5.1s
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o, min_samples_leaf=5, min_samples_split=8, n_estimators=9, total=
18.7s
[CV] bootstrap=True, criterion=mse, max_depth=6, max_features=auto
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[CV]  bootstrap=True, criterion=mse, max_depth=6, max_features=aut
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=   11.9s
[CV] bootstrap=True, criterion=mse, max_depth=6, max_features=auto
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o, min_samples_leaf=5, min_samples_split=12, n_estimators=2, total
=    5.3s
[CV] bootstrap=True, criterion=mse, max_depth=6, max_features=auto
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o, min_samples_leaf=5, min_samples_split=8, n_estimators=9, total=
20.1s
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o, min_samples_leaf=5, min_samples_split=10, n_estimators=6, total
=   12.9s
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, min_samples_leaf=5, min_samples_split=12, n_estimators=7
[CV]  bootstrap=True, criterion=mse, max_depth=6, max_features=aut
```

```
o, min_samples_leaf=5, min_samples_split=8, n_estimators=9, total=
20.1s
[CV] bootstrap=True, criterion=mse, max_depth=6, max_features=auto
, min_samples_leaf=5, min_samples_split=12, n_estimators=7
[CV]  bootstrap=True, criterion=mse, max_depth=6, max_features=aut
o, min_samples_leaf=5, min_samples_split=12, n_estimators=3, total
=   6.2s
[CV] bootstrap=True, criterion=mse, max_depth=6, max_features=auto
, min_samples_leaf=5, min_samples_split=12, n_estimators=8
[CV]  bootstrap=True, criterion=mse, max_depth=6, max_features=aut
o, min_samples_leaf=5, min_samples_split=12, n_estimators=3, total
=   6.3s
[CV] bootstrap=True, criterion=mse, max_depth=6, max_features=auto
, min_samples_leaf=5, min_samples_split=12, n_estimators=8
[CV]  bootstrap=True, criterion=mse, max_depth=6, max_features=aut
o, min_samples_leaf=5, min_samples_split=12, n_estimators=3, total
=   6.2s
[CV] bootstrap=True, criterion=mse, max_depth=6, max_features=auto
, min_samples_leaf=5, min_samples_split=12, n_estimators=8
[CV]  bootstrap=True, criterion=mse, max_depth=6, max_features=aut
o, min_samples_leaf=5, min_samples_split=10, n_estimators=6, total
=  13.2s
[CV]  bootstrap=True, criterion=mse, max_depth=6, max_features=aut
o, min_samples_leaf=5, min_samples_split=8, n_estimators=9, total=
20.8s
[CV]  bootstrap=True, criterion=mse, max_depth=6, max_features=aut
o, min_samples_leaf=5, min_samples_split=10, n_estimators=6, total
=  13.4s
[CV]  bootstrap=True, criterion=mse, max_depth=6, max_features=aut
o, min_samples_leaf=5, min_samples_split=10, n_estimators=6, total
=  13.2s
[CV] bootstrap=True, criterion=mse, max_depth=6, max_features=auto
, min_samples_leaf=5, min_samples_split=12, n_estimators=8
[CV]  bootstrap=True, criterion=mse, max_depth=6, max_features=aut
o, min_samples_leaf=5, min_samples_split=12, n_estimators=3, total
=   6.3s
[CV] bootstrap=True, criterion=mse, max_depth=6, max_features=auto
, min_samples_leaf=5, min_samples_split=12, n_estimators=8
[CV]  bootstrap=True, criterion=mse, max_depth=6, max_features=aut
o, min_samples_leaf=5, min_samples_split=8, n_estimators=9, total=
20.8s
[CV] bootstrap=True, criterion=mse, max_depth=6, max_features=auto
, min_samples_leaf=5, min_samples_split=12, n_estimators=9
[CV] bootstrap=True, criterion=mse, max_depth=6, max_features=auto
, min_samples_leaf=5, min_samples_split=12, n_estimators=9
[CV]  bootstrap=True, criterion=mse, max_depth=6, max_features=aut
o, min_samples_leaf=5, min_samples_split=8, n_estimators=10, total
=  20.8s
[CV] bootstrap=True, criterion=mse, max_depth=6, max_features=auto
, min_samples_leaf=5, min_samples_split=12, n_estimators=9
[CV]  bootstrap=True, criterion=mse, max_depth=6, max_features=aut
o, min_samples_leaf=5, min_samples_split=10, n_estimators=6, total
=  14.1s
[CV]  bootstrap=True, criterion=mse, max_depth=6, max_features=aut
```

```
o, min_samples_leaf=5, min_samples_split=8, n_estimators=10, total
=   20.8s
[CV]  bootstrap=True, criterion=mse, max_depth=6, max_features=aut
o, min_samples_leaf=5, min_samples_split=12, n_estimators=3, total
=    7.1s
[CV] bootstrap=True, criterion=mse, max_depth=6, max_features=auto
, min_samples_leaf=5, min_samples_split=12, n_estimators=9
[CV] bootstrap=True, criterion=mse, max_depth=6, max_features=auto
, min_samples_leaf=5, min_samples_split=12, n_estimators=9
[CV] bootstrap=True, criterion=mse, max_depth=6, max_features=auto
, min_samples_leaf=5, min_samples_split=12, n_estimators=10
[CV] bootstrap=True, criterion=mse, max_depth=6, max_features=auto
, min_samples_leaf=5, min_samples_split=12, n_estimators=10
[CV]  bootstrap=True, criterion=mse, max_depth=6, max_features=aut
o, min_samples_leaf=5, min_samples_split=8, n_estimators=10, total
=   21.0s
[CV] bootstrap=True, criterion=mse, max_depth=6, max_features=auto
, min_samples_leaf=5, min_samples_split=12, n_estimators=10
[CV] bootstrap=True, criterion=mse, max_depth=6, max_features=auto
, min_samples_leaf=5, min_samples_split=12, n_estimators=10
[CV]  bootstrap=True, criterion=mse, max_depth=6, max_features=aut
o, min_samples_leaf=5, min_samples_split=10, n_estimators=7, total
=   14.4s
[CV] bootstrap=True, criterion=mse, max_depth=6, max_features=auto
, min_samples_leaf=5, min_samples_split=12, n_estimators=10
[CV]  bootstrap=True, criterion=mse, max_depth=6, max_features=aut
o, min_samples_leaf=5, min_samples_split=10, n_estimators=7, total
=   14.9s
[CV] bootstrap=True, criterion=mse, max_depth=6, max_features=sqrt
, min_samples_leaf=3, min_samples_split=8, n_estimators=2
[CV]  bootstrap=True, criterion=mse, max_depth=6, max_features=aut
o, min_samples_leaf=5, min_samples_split=8, n_estimators=10, total
=   22.5s
[CV] bootstrap=True, criterion=mse, max_depth=6, max_features=sqrt
, min_samples_leaf=3, min_samples_split=8, n_estimators=2
[CV]  bootstrap=True, criterion=mse, max_depth=6, max_features=aut
o, min_samples_leaf=5, min_samples_split=10, n_estimators=7, total
=   14.5s
[CV]  bootstrap=True, criterion=mse, max_depth=6, max_features=aut
o, min_samples_leaf=5, min_samples_split=12, n_estimators=4, total
=    8.3s
[CV]  bootstrap=True, criterion=mse, max_depth=6, max_features=aut
o, min_samples_leaf=5, min_samples_split=8, n_estimators=10, total
=   23.1s
[CV] bootstrap=True, criterion=mse, max_depth=6, max_features=sqrt
, min_samples_leaf=3, min_samples_split=8, n_estimators=2
[CV] bootstrap=True, criterion=mse, max_depth=6, max_features=sqrt
, min_samples_leaf=3, min_samples_split=8, n_estimators=2
[CV]  bootstrap=True, criterion=mse, max_depth=6, max_features=aut
o, min_samples_leaf=5, min_samples_split=10, n_estimators=7, total
=   16.0s
[CV]  bootstrap=True, criterion=mse, max_depth=6, max_features=sqr
t, min_samples_leaf=3, min_samples_split=8, n_estimators=2, total=
0.7s
```

```
[CV] bootstrap=True, criterion=mse, max_depth=6, max_features=sqrt
, min_samples_leaf=3, min_samples_split=8, n_estimators=2
[CV] bootstrap=True, criterion=mse, max_depth=6, max_features=sqrt
, min_samples_leaf=3, min_samples_split=8, n_estimators=3
[CV]  bootstrap=True, criterion=mse, max_depth=6, max_features=aut
o, min_samples_leaf=5, min_samples_split=10, n_estimators=7, total
=  15.8s
[CV] bootstrap=True, criterion=mse, max_depth=6, max_features=sqrt
, min_samples_leaf=3, min_samples_split=8, n_estimators=3
[CV]  bootstrap=True, criterion=mse, max_depth=6, max_features=sqr
t, min_samples_leaf=3, min_samples_split=8, n_estimators=2, total=
0.7s
[CV] bootstrap=True, criterion=mse, max_depth=6, max_features=sqrt
, min_samples_leaf=3, min_samples_split=8, n_estimators=3
[CV]  bootstrap=True, criterion=mse, max_depth=6, max_features=aut
o, min_samples_leaf=5, min_samples_split=12, n_estimators=4, total
=   9.2s
[CV]  bootstrap=True, criterion=mse, max_depth=6, max_features=aut
o, min_samples_leaf=5, min_samples_split=12, n_estimators=4, total
=   8.2s
[CV] bootstrap=True, criterion=mse, max_depth=6, max_features=sqrt
, min_samples_leaf=3, min_samples_split=8, n_estimators=3
[CV]  bootstrap=True, criterion=mse, max_depth=6, max_features=sqr
t, min_samples_leaf=3, min_samples_split=8, n_estimators=2, total=
0.7s
[CV]  bootstrap=True, criterion=mse, max_depth=6, max_features=sqr
t, min_samples_leaf=3, min_samples_split=8, n_estimators=2, total=
1.0s
[CV] bootstrap=True, criterion=mse, max_depth=6, max_features=sqrt
, min_samples_leaf=3, min_samples_split=8, n_estimators=3
[CV]  bootstrap=True, criterion=mse, max_depth=6, max_features=sqr
t, min_samples_leaf=3, min_samples_split=8, n_estimators=2, total=
0.7s
[CV] bootstrap=True, criterion=mse, max_depth=6, max_features=sqrt
, min_samples_leaf=3, min_samples_split=8, n_estimators=4
[CV]  bootstrap=True, criterion=mse, max_depth=6, max_features=aut
o, min_samples_leaf=5, min_samples_split=12, n_estimators=4, total
=   8.4s
[CV] bootstrap=True, criterion=mse, max_depth=6, max_features=sqrt
, min_samples_leaf=3, min_samples_split=8, n_estimators=4
[CV] bootstrap=True, criterion=mse, max_depth=6, max_features=sqrt
, min_samples_leaf=3, min_samples_split=8, n_estimators=4
[CV]  bootstrap=True, criterion=mse, max_depth=6, max_features=aut
o, min_samples_leaf=5, min_samples_split=12, n_estimators=4, total
=   8.2s
[CV] bootstrap=True, criterion=mse, max_depth=6, max_features=sqrt
, min_samples_leaf=3, min_samples_split=8, n_estimators=4
[CV]  bootstrap=True, criterion=mse, max_depth=6, max_features=sqr
t, min_samples_leaf=3, min_samples_split=8, n_estimators=3, total=
0.9s
[CV] bootstrap=True, criterion=mse, max_depth=6, max_features=sqrt
, min_samples_leaf=3, min_samples_split=8, n_estimators=4
[CV]  bootstrap=True, criterion=mse, max_depth=6, max_features=sqr
t, min_samples_leaf=3, min_samples_split=8, n_estimators=3, total=
```

```
1.1s
[CV] bootstrap=True, criterion=mse, max_depth=6, max_features=sqrt
, min_samples_leaf=3, min_samples_split=8, n_estimators=5
[CV] bootstrap=True, criterion=mse, max_depth=6, max_features=sqrt
, min_samples_leaf=3, min_samples_split=8, n_estimators=5
[CV]  bootstrap=True, criterion=mse, max_depth=6, max_features=sqr
t, min_samples_leaf=3, min_samples_split=8, n_estimators=3, total=
1.0s
[CV] bootstrap=True, criterion=mse, max_depth=6, max_features=sqrt
, min_samples_leaf=3, min_samples_split=8, n_estimators=5
[CV] bootstrap=True, criterion=mse, max_depth=6, max_features=sqrt
, min_samples_leaf=3, min_samples_split=8, n_estimators=5
[CV]  bootstrap=True, criterion=mse, max_depth=6, max_features=sqr
t, min_samples_leaf=3, min_samples_split=8, n_estimators=3, total=
1.2s
[CV] bootstrap=True, criterion=mse, max_depth=6, max_features=sqrt
, min_samples_leaf=3, min_samples_split=8, n_estimators=5
[CV]  bootstrap=True, criterion=mse, max_depth=6, max_features=sqr
t, min_samples_leaf=3, min_samples_split=8, n_estimators=3, total=
1.1s
[CV] bootstrap=True, criterion=mse, max_depth=6, max_features=sqrt
, min_samples_leaf=3, min_samples_split=8, n_estimators=6
[CV]  bootstrap=True, criterion=mse, max_depth=6, max_features=aut
o, min_samples_leaf=5, min_samples_split=10, n_estimators=8, total
=  16.5s
[CV] bootstrap=True, criterion=mse, max_depth=6, max_features=sqrt
, min_samples_leaf=3, min_samples_split=8, n_estimators=6
[CV]  bootstrap=True, criterion=mse, max_depth=6, max_features=sqr
t, min_samples_leaf=3, min_samples_split=8, n_estimators=4, total=
1.3s
[CV] bootstrap=True, criterion=mse, max_depth=6, max_features=sqrt
, min_samples_leaf=3, min_samples_split=8, n_estimators=6
[CV]  bootstrap=True, criterion=mse, max_depth=6, max_features=sqr
t, min_samples_leaf=3, min_samples_split=8, n_estimators=4, total=
1.4s
[CV] bootstrap=True, criterion=mse, max_depth=6, max_features=sqrt
, min_samples_leaf=3, min_samples_split=8, n_estimators=6
[CV]  bootstrap=True, criterion=mse, max_depth=6, max_features=aut
o, min_samples_leaf=5, min_samples_split=10, n_estimators=8, total
=  16.4s
[CV] bootstrap=True, criterion=mse, max_depth=6, max_features=sqrt
, min_samples_leaf=3, min_samples_split=8, n_estimators=6
[CV]  bootstrap=True, criterion=mse, max_depth=6, max_features=sqr
t, min_samples_leaf=3, min_samples_split=8, n_estimators=4, total=
1.3s
[CV] bootstrap=True, criterion=mse, max_depth=6, max_features=sqrt
, min_samples_leaf=3, min_samples_split=8, n_estimators=7
[CV]  bootstrap=True, criterion=mse, max_depth=6, max_features=aut
o, min_samples_leaf=5, min_samples_split=10, n_estimators=8, total
=  16.9s
[CV]  bootstrap=True, criterion=mse, max_depth=6, max_features=sqr
t, min_samples_leaf=3, min_samples_split=8, n_estimators=4, total=
1.4s
[CV] bootstrap=True, criterion=mse, max_depth=6, max_features=sqrt
```

```
, min_samples_leaf=3, min_samples_split=8, n_estimators=7
[CV]  bootstrap=True, criterion=mse, max_depth=6, max_features=sqr
t, min_samples_leaf=3, min_samples_split=8, n_estimators=4, total=
1.7s
[CV]  bootstrap=True, criterion=mse, max_depth=6, max_features=sqr
t, min_samples_leaf=3, min_samples_split=8, n_estimators=5, total=
1.5s
[CV] bootstrap=True, criterion=mse, max_depth=6, max_features=sqrt
, min_samples_leaf=3, min_samples_split=8, n_estimators=7
[CV] bootstrap=True, criterion=mse, max_depth=6, max_features=sqrt
, min_samples_leaf=3, min_samples_split=8, n_estimators=7
[CV]  bootstrap=True, criterion=mse, max_depth=6, max_features=sqr
t, min_samples_leaf=3, min_samples_split=8, n_estimators=5, total=
1.6s
[CV] bootstrap=True, criterion=mse, max_depth=6, max_features=sqrt
, min_samples_leaf=3, min_samples_split=8, n_estimators=7
[CV] bootstrap=True, criterion=mse, max_depth=6, max_features=sqrt
, min_samples_leaf=3, min_samples_split=8, n_estimators=8
[CV]  bootstrap=True, criterion=mse, max_depth=6, max_features=sqr
t, min_samples_leaf=3, min_samples_split=8, n_estimators=5, total=
1.5s
[CV] bootstrap=True, criterion=mse, max_depth=6, max_features=sqrt
, min_samples_leaf=3, min_samples_split=8, n_estimators=8
[CV]  bootstrap=True, criterion=mse, max_depth=6, max_features=aut
o, min_samples_leaf=5, min_samples_split=10, n_estimators=8, total
=  17.5s
[CV]  bootstrap=True, criterion=mse, max_depth=6, max_features=aut
o, min_samples_leaf=5, min_samples_split=12, n_estimators=5, total
=  10.5s
[CV]  bootstrap=True, criterion=mse, max_depth=6, max_features=aut
o, min_samples_leaf=5, min_samples_split=10, n_estimators=8, total
=  17.8s
[CV] bootstrap=True, criterion=mse, max_depth=6, max_features=sqrt
, min_samples_leaf=3, min_samples_split=8, n_estimators=8
[CV] bootstrap=True, criterion=mse, max_depth=6, max_features=sqrt
, min_samples_leaf=3, min_samples_split=8, n_estimators=8
[CV] bootstrap=True, criterion=mse, max_depth=6, max_features=sqrt
, min_samples_leaf=3, min_samples_split=8, n_estimators=8
[CV]  bootstrap=True, criterion=mse, max_depth=6, max_features=sqr
t, min_samples_leaf=3, min_samples_split=8, n_estimators=5, total=
2.2s
[CV]  bootstrap=True, criterion=mse, max_depth=6, max_features=aut
o, min_samples_leaf=5, min_samples_split=12, n_estimators=5, total
=  10.7s
[CV] bootstrap=True, criterion=mse, max_depth=6, max_features=sqrt
, min_samples_leaf=3, min_samples_split=8, n_estimators=9
[CV]  bootstrap=True, criterion=mse, max_depth=6, max_features=sqr
t, min_samples_leaf=3, min_samples_split=8, n_estimators=6, total=
1.9s
[CV] bootstrap=True, criterion=mse, max_depth=6, max_features=sqrt
, min_samples_leaf=3, min_samples_split=8, n_estimators=9
[CV]  bootstrap=True, criterion=mse, max_depth=6, max_features=sqr
t, min_samples_leaf=3, min_samples_split=8, n_estimators=6, total=
1.8s
```

```
[CV]  bootstrap=True, criterion=mse, max_depth=6, max_features=sqr
t, min_samples_leaf=3, min_samples_split=8, n_estimators=5, total=
2.3s
[CV] bootstrap=True, criterion=mse, max_depth=6, max_features=sqrt
, min_samples_leaf=3, min_samples_split=8, n_estimators=9
[CV]  bootstrap=True, criterion=mse, max_depth=6, max_features=sqr
t, min_samples_leaf=3, min_samples_split=8, n_estimators=6, total=
2.2s
[CV]  bootstrap=True, criterion=mse, max_depth=6, max_features=sqr
t, min_samples_leaf=3, min_samples_split=8, n_estimators=6, total=
1.9s
[CV]  bootstrap=True, criterion=mse, max_depth=6, max_features=aut
o, min_samples_leaf=5, min_samples_split=12, n_estimators=5, total
=  11.5s
[CV] bootstrap=True, criterion=mse, max_depth=6, max_features=sqrt
, min_samples_leaf=3, min_samples_split=8, n_estimators=9
[CV]  bootstrap=True, criterion=mse, max_depth=6, max_features=sqr
t, min_samples_leaf=3, min_samples_split=8, n_estimators=6, total=
1.9s
[CV]  bootstrap=True, criterion=mse, max_depth=6, max_features=aut
o, min_samples_leaf=5, min_samples_split=12, n_estimators=5, total
=  11.4s
[CV] bootstrap=True, criterion=mse, max_depth=6, max_features=sqrt
, min_samples_leaf=3, min_samples_split=8, n_estimators=9
[CV] bootstrap=True, criterion=mse, max_depth=6, max_features=sqrt
, min_samples_leaf=3, min_samples_split=8, n_estimators=10
[CV] bootstrap=True, criterion=mse, max_depth=6, max_features=sqrt
, min_samples_leaf=3, min_samples_split=8, n_estimators=10
[CV]  bootstrap=True, criterion=mse, max_depth=6, max_features=aut
o, min_samples_leaf=5, min_samples_split=10, n_estimators=9, total
=  18.8s
[CV]  bootstrap=True, criterion=mse, max_depth=6, max_features=sqr
t, min_samples_leaf=3, min_samples_split=8, n_estimators=7, total=
2.1s
[CV] bootstrap=True, criterion=mse, max_depth=6, max_features=sqrt
, min_samples_leaf=3, min_samples_split=8, n_estimators=10
[CV] bootstrap=True, criterion=mse, max_depth=6, max_features=sqrt
, min_samples_leaf=3, min_samples_split=8, n_estimators=10
[CV]  bootstrap=True, criterion=mse, max_depth=6, max_features=sqr
t, min_samples_leaf=3, min_samples_split=8, n_estimators=7, total=
2.2s
[CV] bootstrap=True, criterion=mse, max_depth=6, max_features=sqrt
, min_samples_leaf=3, min_samples_split=8, n_estimators=10
[CV] bootstrap=True, criterion=mse, max_depth=6, max_features=sqrt
, min_samples_leaf=3, min_samples_split=10, n_estimators=2
[CV]  bootstrap=True, criterion=mse, max_depth=6, max_features=aut
o, min_samples_leaf=5, min_samples_split=12, n_estimators=5, total
=  11.7s
[CV]  bootstrap=True, criterion=mse, max_depth=6, max_features=sqr
t, min_samples_leaf=3, min_samples_split=8, n_estimators=7, total=
2.2s
[CV] bootstrap=True, criterion=mse, max_depth=6, max_features=sqrt
, min_samples_leaf=3, min_samples_split=10, n_estimators=2
[CV]  bootstrap=True, criterion=mse, max_depth=6, max_features=sqr
```

```
t, min_samples_leaf=3, min_samples_split=8, n_estimators=7, total=
2.3s
[CV] bootstrap=True, criterion=mse, max_depth=6, max_features=sqrt
, min_samples_leaf=3, min_samples_split=10, n_estimators=2
[CV]  bootstrap=True, criterion=mse, max_depth=6, max_features=sqr
t, min_samples_leaf=3, min_samples_split=8, n_estimators=7, total=
2.7s
[CV] bootstrap=True, criterion=mse, max_depth=6, max_features=sqrt
, min_samples_leaf=3, min_samples_split=10, n_estimators=2
[CV]  bootstrap=True, criterion=mse, max_depth=6, max_features=sqr
t, min_samples_leaf=3, min_samples_split=8, n_estimators=8, total=
2.4s
[CV]  bootstrap=True, criterion=mse, max_depth=6, max_features=aut
o, min_samples_leaf=5, min_samples_split=10, n_estimators=9, total
=  19.6s
[CV] bootstrap=True, criterion=mse, max_depth=6, max_features=sqrt
, min_samples_leaf=3, min_samples_split=10, n_estimators=2
[CV]  bootstrap=True, criterion=mse, max_depth=6, max_features=sqr
t, min_samples_leaf=3, min_samples_split=8, n_estimators=8, total=
2.3s
[CV] bootstrap=True, criterion=mse, max_depth=6, max_features=sqrt
, min_samples_leaf=3, min_samples_split=10, n_estimators=3
[CV]  bootstrap=True, criterion=mse, max_depth=6, max_features=sqr
t, min_samples_leaf=3, min_samples_split=10, n_estimators=2, total
=   0.7s
[CV]  bootstrap=True, criterion=mse, max_depth=6, max_features=aut
o, min_samples_leaf=5, min_samples_split=10, n_estimators=9, total
=  19.7s
[CV] bootstrap=True, criterion=mse, max_depth=6, max_features=sqrt
, min_samples_leaf=3, min_samples_split=10, n_estimators=3
[CV] bootstrap=True, criterion=mse, max_depth=6, max_features=sqrt
, min_samples_leaf=3, min_samples_split=10, n_estimators=3
[CV]  bootstrap=True, criterion=mse, max_depth=6, max_features=sqr
t, min_samples_leaf=3, min_samples_split=10, n_estimators=2, total
=   0.7s
[CV]  bootstrap=True, criterion=mse, max_depth=6, max_features=sqr
t, min_samples_leaf=3, min_samples_split=10, n_estimators=2, total
=   0.6s
[CV] bootstrap=True, criterion=mse, max_depth=6, max_features=sqrt
, min_samples_leaf=3, min_samples_split=10, n_estimators=3
[CV]  bootstrap=True, criterion=mse, max_depth=6, max_features=aut
o, min_samples_leaf=5, min_samples_split=10, n_estimators=9, total
=  19.9s
[CV] bootstrap=True, criterion=mse, max_depth=6, max_features=sqrt
, min_samples_leaf=3, min_samples_split=10, n_estimators=3
[CV]  bootstrap=True, criterion=mse, max_depth=6, max_features=sqr
t, min_samples_leaf=3, min_samples_split=8, n_estimators=8, total=
2.5s
[CV] bootstrap=True, criterion=mse, max_depth=6, max_features=sqrt
, min_samples_leaf=3, min_samples_split=10, n_estimators=4
[CV]  bootstrap=True, criterion=mse, max_depth=6, max_features=sqr
t, min_samples_leaf=3, min_samples_split=10, n_estimators=2, total
=   0.6s
[CV]  bootstrap=True, criterion=mse, max_depth=6, max_features=sqr
```

```
t, min_samples_leaf=3, min_samples_split=10, n_estimators=2, total
=   0.8s
[CV]  bootstrap=True, criterion=mse, max_depth=6, max_features=sqr
t, min_samples_leaf=3, min_samples_split=8, n_estimators=8, total=
2.9s
[CV]  bootstrap=True, criterion=mse, max_depth=6, max_features=sqr
t, min_samples_leaf=3, min_samples_split=8, n_estimators=8, total=
2.8s
[CV] bootstrap=True, criterion=mse, max_depth=6, max_features=sqrt
, min_samples_leaf=3, min_samples_split=10, n_estimators=4
[CV] bootstrap=True, criterion=mse, max_depth=6, max_features=sqrt
, min_samples_leaf=3, min_samples_split=10, n_estimators=4
[CV]  bootstrap=True, criterion=mse, max_depth=6, max_features=aut
o, min_samples_leaf=5, min_samples_split=12, n_estimators=6, total
=   13.1s
[CV]  bootstrap=True, criterion=mse, max_depth=6, max_features=sqr
t, min_samples_leaf=3, min_samples_split=8, n_estimators=9, total=
2.6s
[CV] bootstrap=True, criterion=mse, max_depth=6, max_features=sqrt
, min_samples_leaf=3, min_samples_split=10, n_estimators=4
[CV]  bootstrap=True, criterion=mse, max_depth=6, max_features=aut
o, min_samples_leaf=5, min_samples_split=10, n_estimators=9, total
=   20.2s
[CV]  bootstrap=True, criterion=mse, max_depth=6, max_features=sqr
t, min_samples_leaf=3, min_samples_split=8, n_estimators=9, total=
2.8s
[CV] bootstrap=True, criterion=mse, max_depth=6, max_features=sqrt
, min_samples_leaf=3, min_samples_split=10, n_estimators=4
[CV]  bootstrap=True, criterion=mse, max_depth=6, max_features=sqr
t, min_samples_leaf=3, min_samples_split=8, n_estimators=9, total=
2.6s
[CV]  bootstrap=True, criterion=mse, max_depth=6, max_features=sqr
t, min_samples_leaf=3, min_samples_split=10, n_estimators=3, total
=   0.9s
[CV]  bootstrap=True, criterion=mse, max_depth=6, max_features=sqr
t, min_samples_leaf=3, min_samples_split=10, n_estimators=3, total
=   1.0s
[CV]  bootstrap=True, criterion=mse, max_depth=6, max_features=aut
o, min_samples_leaf=5, min_samples_split=12, n_estimators=6, total
=   12.3s
[CV] bootstrap=True, criterion=mse, max_depth=6, max_features=sqrt
, min_samples_leaf=3, min_samples_split=10, n_estimators=5
[CV]  bootstrap=True, criterion=mse, max_depth=6, max_features=sqr
t, min_samples_leaf=3, min_samples_split=10, n_estimators=3, total
=   0.9s
[CV]  bootstrap=True, criterion=mse, max_depth=6, max_features=sqr
t, min_samples_leaf=3, min_samples_split=8, n_estimators=9, total=
2.7s
[CV] bootstrap=True, criterion=mse, max_depth=6, max_features=sqrt
, min_samples_leaf=3, min_samples_split=10, n_estimators=5
[CV] bootstrap=True, criterion=mse, max_depth=6, max_features=sqrt
, min_samples_leaf=3, min_samples_split=10, n_estimators=5
[CV]  bootstrap=True, criterion=mse, max_depth=6, max_features=sqr
t, min_samples_leaf=3, min_samples_split=10, n_estimators=3, total
```

```
=    1.0s
[CV]  bootstrap=True, criterion=mse, max_depth=6, max_features=sqr
t, min_samples_leaf=3, min_samples_split=10, n_estimators=3, total
=    0.9s
[CV]  bootstrap=True, criterion=mse, max_depth=6, max_features=aut
o, min_samples_leaf=5, min_samples_split=12, n_estimators=6, total
=   12.9s
[CV] bootstrap=True, criterion=mse, max_depth=6, max_features=sqrt
, min_samples_leaf=3, min_samples_split=10, n_estimators=5
[CV]  bootstrap=True, criterion=mse, max_depth=6, max_features=sqr
t, min_samples_leaf=3, min_samples_split=8, n_estimators=9, total=
2.9s
[CV] bootstrap=True, criterion=mse, max_depth=6, max_features=sqrt
, min_samples_leaf=3, min_samples_split=10, n_estimators=5
[CV] bootstrap=True, criterion=mse, max_depth=6, max_features=sqrt
, min_samples_leaf=3, min_samples_split=10, n_estimators=6
[CV]  bootstrap=True, criterion=mse, max_depth=6, max_features=sqr
t, min_samples_leaf=3, min_samples_split=10, n_estimators=4, total
=    1.1s
[CV]  bootstrap=True, criterion=mse, max_depth=6, max_features=sqr
t, min_samples_leaf=3, min_samples_split=8, n_estimators=10, total
=    2.8s
[CV]  bootstrap=True, criterion=mse, max_depth=6, max_features=aut
o, min_samples_leaf=5, min_samples_split=12, n_estimators=6, total
=   13.8s
[CV]  bootstrap=True, criterion=mse, max_depth=6, max_features=aut
o, min_samples_leaf=5, min_samples_split=10, n_estimators=10, tota
l=   20.6s
[CV]  bootstrap=True, criterion=mse, max_depth=6, max_features=sqr
t, min_samples_leaf=3, min_samples_split=8, n_estimators=10, total
=    2.6s
[CV] bootstrap=True, criterion=mse, max_depth=6, max_features=sqrt
, min_samples_leaf=3, min_samples_split=10, n_estimators=6
[CV]  bootstrap=True, criterion=mse, max_depth=6, max_features=sqr
t, min_samples_leaf=3, min_samples_split=8, n_estimators=10, total
=    3.1s
[CV] bootstrap=True, criterion=mse, max_depth=6, max_features=sqrt
, min_samples_leaf=3, min_samples_split=10, n_estimators=6
[CV]  bootstrap=True, criterion=mse, max_depth=6, max_features=sqr
t, min_samples_leaf=3, min_samples_split=10, n_estimators=4, total
=    1.1s
[CV]  bootstrap=True, criterion=mse, max_depth=6, max_features=aut
o, min_samples_leaf=5, min_samples_split=10, n_estimators=10, tota
l=   20.6s
[CV]  bootstrap=True, criterion=mse, max_depth=6, max_features=aut
o, min_samples_leaf=5, min_samples_split=10, n_estimators=10, tota
l=   20.4s
[CV] bootstrap=True, criterion=mse, max_depth=6, max_features=sqrt
, min_samples_leaf=3, min_samples_split=10, n_estimators=6
[CV]  bootstrap=True, criterion=mse, max_depth=6, max_features=sqr
t, min_samples_leaf=3, min_samples_split=10, n_estimators=4, total
=    1.3s
[CV]  bootstrap=True, criterion=mse, max_depth=6, max_features=sqr
t, min_samples_leaf=3, min_samples_split=10, n_estimators=4, total
```

```
=    1.2s
[CV] bootstrap=True, criterion=mse, max_depth=6, max_features=sqrt
, min_samples_leaf=3, min_samples_split=10, n_estimators=6
[CV]  bootstrap=True, criterion=mse, max_depth=6, max_features=sqr
t, min_samples_leaf=3, min_samples_split=10, n_estimators=4, total
=    1.1s
[CV]  bootstrap=True, criterion=mse, max_depth=6, max_features=sqr
t, min_samples_leaf=3, min_samples_split=8, n_estimators=10, total
=    2.9s
[CV] bootstrap=True, criterion=mse, max_depth=6, max_features=sqrt
, min_samples_leaf=3, min_samples_split=10, n_estimators=7
[CV]  bootstrap=True, criterion=mse, max_depth=6, max_features=aut
o, min_samples_leaf=5, min_samples_split=10, n_estimators=10, tota
l=   21.4s
[CV]  bootstrap=True, criterion=mse, max_depth=6, max_features=aut
o, min_samples_leaf=5, min_samples_split=12, n_estimators=6, total
=   13.7s
[CV]  bootstrap=True, criterion=mse, max_depth=6, max_features=sqr
t, min_samples_leaf=3, min_samples_split=8, n_estimators=10, total
=    3.3s
[CV] bootstrap=True, criterion=mse, max_depth=6, max_features=sqrt
, min_samples_leaf=3, min_samples_split=10, n_estimators=7
[CV]  bootstrap=True, criterion=mse, max_depth=6, max_features=sqr
t, min_samples_leaf=3, min_samples_split=10, n_estimators=5, total
=    1.2s
[CV]  bootstrap=True, criterion=mse, max_depth=6, max_features=sqr
t, min_samples_leaf=3, min_samples_split=10, n_estimators=5, total
=    1.2s
[CV] bootstrap=True, criterion=mse, max_depth=6, max_features=sqrt
, min_samples_leaf=3, min_samples_split=10, n_estimators=7
[CV] bootstrap=True, criterion=mse, max_depth=6, max_features=sqrt
, min_samples_leaf=3, min_samples_split=10, n_estimators=7
[CV] bootstrap=True, criterion=mse, max_depth=6, max_features=sqrt
, min_samples_leaf=3, min_samples_split=10, n_estimators=7
[CV]  bootstrap=True, criterion=mse, max_depth=6, max_features=sqr
t, min_samples_leaf=3, min_samples_split=10, n_estimators=5, total
=    1.3s
[CV] bootstrap=True, criterion=mse, max_depth=6, max_features=sqrt
, min_samples_leaf=3, min_samples_split=10, n_estimators=8
[CV]  bootstrap=True, criterion=mse, max_depth=6, max_features=sqr
t, min_samples_leaf=3, min_samples_split=10, n_estimators=5, total
=    1.2s
[CV] bootstrap=True, criterion=mse, max_depth=6, max_features=sqrt
, min_samples_leaf=3, min_samples_split=10, n_estimators=8
[CV]  bootstrap=True, criterion=mse, max_depth=6, max_features=sqr
t, min_samples_leaf=3, min_samples_split=10, n_estimators=5, total
=    1.6s
[CV] bootstrap=True, criterion=mse, max_depth=6, max_features=sqrt
, min_samples_leaf=3, min_samples_split=10, n_estimators=8
[CV]  bootstrap=True, criterion=mse, max_depth=6, max_features=sqr
t, min_samples_leaf=3, min_samples_split=10, n_estimators=6, total
=    1.2s
[CV] bootstrap=True, criterion=mse, max_depth=6, max_features=sqrt
, min_samples_leaf=3, min_samples_split=10, n_estimators=8
```

```
[CV] bootstrap=True, criterion=mse, max_depth=6, max_features=sqrt
, min_samples_leaf=3, min_samples_split=10, n_estimators=8
[CV]  bootstrap=True, criterion=mse, max_depth=6, max_features=sqr
t, min_samples_leaf=3, min_samples_split=10, n_estimators=6, total
=   1.5s
[CV] bootstrap=True, criterion=mse, max_depth=6, max_features=sqrt
, min_samples_leaf=3, min_samples_split=10, n_estimators=9
[CV]  bootstrap=True, criterion=mse, max_depth=6, max_features=aut
o, min_samples_leaf=5, min_samples_split=12, n_estimators=7, total
=  14.5s
[CV]  bootstrap=True, criterion=mse, max_depth=6, max_features=aut
o, min_samples_leaf=5, min_samples_split=12, n_estimators=7, total
=  14.3s
[CV]  bootstrap=True, criterion=mse, max_depth=6, max_features=sqr
t, min_samples_leaf=3, min_samples_split=10, n_estimators=6, total
=   1.4s
[CV] bootstrap=True, criterion=mse, max_depth=6, max_features=sqrt
, min_samples_leaf=3, min_samples_split=10, n_estimators=9
[CV]  bootstrap=True, criterion=mse, max_depth=6, max_features=aut
o, min_samples_leaf=5, min_samples_split=12, n_estimators=7, total
=  13.5s
[CV]  bootstrap=True, criterion=mse, max_depth=6, max_features=sqr
t, min_samples_leaf=3, min_samples_split=10, n_estimators=6, total
=   1.3s
[CV] bootstrap=True, criterion=mse, max_depth=6, max_features=sqrt
, min_samples_leaf=3, min_samples_split=10, n_estimators=9
[CV]  bootstrap=True, criterion=mse, max_depth=6, max_features=sqr
t, min_samples_leaf=3, min_samples_split=10, n_estimators=6, total
=   1.6s
[CV] bootstrap=True, criterion=mse, max_depth=6, max_features=sqrt
, min_samples_leaf=3, min_samples_split=10, n_estimators=9
[CV]  bootstrap=True, criterion=mse, max_depth=6, max_features=aut
o, min_samples_leaf=5, min_samples_split=10, n_estimators=10, tota
l=  21.5s
[CV] bootstrap=True, criterion=mse, max_depth=6, max_features=sqrt
, min_samples_leaf=3, min_samples_split=10, n_estimators=9
[CV] bootstrap=True, criterion=mse, max_depth=6, max_features=sqrt
, min_samples_leaf=3, min_samples_split=10, n_estimators=10
[CV]  bootstrap=True, criterion=mse, max_depth=6, max_features=aut
o, min_samples_leaf=5, min_samples_split=12, n_estimators=7, total
=  13.7s
[CV]  bootstrap=True, criterion=mse, max_depth=6, max_features=sqr
t, min_samples_leaf=3, min_samples_split=10, n_estimators=7, total
=   1.6s
[CV] bootstrap=True, criterion=mse, max_depth=6, max_features=sqrt
, min_samples_leaf=3, min_samples_split=10, n_estimators=10
[CV]  bootstrap=True, criterion=mse, max_depth=6, max_features=sqr
t, min_samples_leaf=3, min_samples_split=10, n_estimators=7, total
=   1.5s
[CV] bootstrap=True, criterion=mse, max_depth=6, max_features=sqrt
, min_samples_leaf=3, min_samples_split=10, n_estimators=10
[CV]  bootstrap=True, criterion=mse, max_depth=6, max_features=aut
o, min_samples_leaf=5, min_samples_split=12, n_estimators=7, total
=  14.4s
```

```
[CV]  bootstrap=True, criterion=mse, max_depth=6, max_features=sqr
t, min_samples_leaf=3, min_samples_split=10, n_estimators=7, total
=   1.8s
[CV] bootstrap=True, criterion=mse, max_depth=6, max_features=sqrt
, min_samples_leaf=3, min_samples_split=10, n_estimators=10
[CV]  bootstrap=True, criterion=mse, max_depth=6, max_features=sqr
t, min_samples_leaf=3, min_samples_split=10, n_estimators=7, total
=   1.5s
[CV] bootstrap=True, criterion=mse, max_depth=6, max_features=sqrt
, min_samples_leaf=3, min_samples_split=10, n_estimators=10
[CV]  bootstrap=True, criterion=mse, max_depth=6, max_features=sqr
t, min_samples_leaf=3, min_samples_split=10, n_estimators=7, total
=   1.7s
[CV] bootstrap=True, criterion=mse, max_depth=6, max_features=sqrt
, min_samples_leaf=3, min_samples_split=12, n_estimators=2
[CV] bootstrap=True, criterion=mse, max_depth=6, max_features=sqrt
, min_samples_leaf=3, min_samples_split=12, n_estimators=2
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, min_samples_leaf=3, min_samples_split=12, n_estimators=2
[CV]  bootstrap=True, criterion=mse, max_depth=6, max_features=sqr
t, min_samples_leaf=3, min_samples_split=10, n_estimators=8, total
=   1.7s
[CV]  bootstrap=True, criterion=mse, max_depth=6, max_features=sqr
t, min_samples_leaf=3, min_samples_split=10, n_estimators=8, total
=   1.5s
[CV] bootstrap=True, criterion=mse, max_depth=6, max_features=sqrt
, min_samples_leaf=3, min_samples_split=12, n_estimators=2
[CV]  bootstrap=True, criterion=mse, max_depth=6, max_features=sqr
t, min_samples_leaf=3, min_samples_split=10, n_estimators=8, total
=   1.9s
[CV]  bootstrap=True, criterion=mse, max_depth=6, max_features=sqr
t, min_samples_leaf=3, min_samples_split=10, n_estimators=8, total
=   1.7s
[CV] bootstrap=True, criterion=mse, max_depth=6, max_features=sqrt
, min_samples_leaf=3, min_samples_split=12, n_estimators=2
[CV] bootstrap=True, criterion=mse, max_depth=6, max_features=sqrt
, min_samples_leaf=3, min_samples_split=12, n_estimators=3
[CV]  bootstrap=True, criterion=mse, max_depth=6, max_features=sqr
t, min_samples_leaf=3, min_samples_split=12, n_estimators=2, total
=   0.5s
[CV]  bootstrap=True, criterion=mse, max_depth=6, max_features=aut
o, min_samples_leaf=5, min_samples_split=12, n_estimators=8, total
=  14.7s
[CV]  bootstrap=True, criterion=mse, max_depth=6, max_features=sqr
t, min_samples_leaf=3, min_samples_split=12, n_estimators=2, total
=   0.5s
[CV] bootstrap=True, criterion=mse, max_depth=6, max_features=sqrt
, min_samples_leaf=3, min_samples_split=12, n_estimators=3
[CV] bootstrap=True, criterion=mse, max_depth=6, max_features=sqrt
, min_samples_leaf=3, min_samples_split=12, n_estimators=3
[CV]  bootstrap=True, criterion=mse, max_depth=6, max_features=sqr
t, min_samples_leaf=3, min_samples_split=12, n_estimators=2, total
=   0.5s
[CV]  bootstrap=True, criterion=mse, max_depth=6, max_features=sqr
```

```
t, min_samples_leaf=3, min_samples_split=12, n_estimators=2, total
=   0.5s
[CV]  bootstrap=True, criterion=mse, max_depth=6, max_features=aut
o, min_samples_leaf=5, min_samples_split=12, n_estimators=8, total
=  14.7s
[CV] bootstrap=True, criterion=mse, max_depth=6, max_features=sqrt
, min_samples_leaf=3, min_samples_split=12, n_estimators=3
[CV]  bootstrap=True, criterion=mse, max_depth=6, max_features=aut
o, min_samples_leaf=5, min_samples_split=12, n_estimators=8, total
=  14.8s
[CV]  bootstrap=True, criterion=mse, max_depth=6, max_features=sqr
t, min_samples_leaf=3, min_samples_split=12, n_estimators=2, total
=   0.4s
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[CV]  bootstrap=True, criterion=mse, max_depth=6, max_features=sqr
t, min_samples_leaf=3, min_samples_split=10, n_estimators=9, total
=   1.9s
[CV]  bootstrap=True, criterion=mse, max_depth=6, max_features=sqr
t, min_samples_leaf=3, min_samples_split=10, n_estimators=9, total
=   2.0s
[CV]  bootstrap=True, criterion=mse, max_depth=6, max_features=sqr
t, min_samples_leaf=3, min_samples_split=10, n_estimators=9, total
=   2.1s
[CV] bootstrap=True, criterion=mse, max_depth=6, max_features=sqrt
, min_samples_leaf=3, min_samples_split=12, n_estimators=4
[CV]  bootstrap=True, criterion=mse, max_depth=6, max_features=sqr
t, min_samples_leaf=3, min_samples_split=10, n_estimators=8, total
=   2.3s
[CV] bootstrap=True, criterion=mse, max_depth=6, max_features=sqrt
, min_samples_leaf=3, min_samples_split=12, n_estimators=4
[CV]  bootstrap=True, criterion=mse, max_depth=6, max_features=sqr
t, min_samples_leaf=3, min_samples_split=10, n_estimators=9, total
=   1.8s
[CV] bootstrap=True, criterion=mse, max_depth=6, max_features=sqrt
, min_samples_leaf=3, min_samples_split=12, n_estimators=4
[CV]  bootstrap=True, criterion=mse, max_depth=6, max_features=sqr
t, min_samples_leaf=3, min_samples_split=12, n_estimators=3, total
=   0.8s
[CV]  bootstrap=True, criterion=mse, max_depth=6, max_features=sqr
t, min_samples_leaf=3, min_samples_split=12, n_estimators=3, total
=   0.6s
[CV]  bootstrap=True, criterion=mse, max_depth=6, max_features=sqr
t, min_samples_leaf=3, min_samples_split=10, n_estimators=9, total
=   2.1s
[CV]  bootstrap=True, criterion=mse, max_depth=6, max_features=sqr
t, min_samples_leaf=3, min_samples_split=10, n_estimators=10, tota
l=   1.9s
[CV] bootstrap=True, criterion=mse, max_depth=6, max_features=sqrt
, min_samples_leaf=3, min_samples_split=12, n_estimators=4
[CV]  bootstrap=True, criterion=mse, max_depth=6, max_features=sqr
t, min_samples_leaf=3, min_samples_split=12, n_estimators=3, total
=   0.8s
[CV]  bootstrap=True, criterion=mse, max_depth=6, max_features=sqr
```

```
t, min_samples_leaf=3, min_samples_split=12, n_estimators=3, total
=   0.5s
[CV] bootstrap=True, criterion=mse, max_depth=6, max_features=sqrt
, min_samples_leaf=3, min_samples_split=12, n_estimators=4
[CV]  bootstrap=True, criterion=mse, max_depth=6, max_features=aut
o, min_samples_leaf=5, min_samples_split=12, n_estimators=8, total
=  15.2s
[CV]  bootstrap=True, criterion=mse, max_depth=6, max_features=sqr
t, min_samples_leaf=3, min_samples_split=12, n_estimators=3, total
=   0.6s
[CV]  bootstrap=True, criterion=mse, max_depth=6, max_features=sqr
t, min_samples_leaf=3, min_samples_split=10, n_estimators=10, tota
l=   1.9s
[CV]  bootstrap=True, criterion=mse, max_depth=6, max_features=sqr
t, min_samples_leaf=3, min_samples_split=10, n_estimators=10, tota
l=   2.0s
[CV] bootstrap=True, criterion=mse, max_depth=6, max_features=sqrt
, min_samples_leaf=3, min_samples_split=12, n_estimators=5
[CV]  bootstrap=True, criterion=mse, max_depth=6, max_features=sqr
t, min_samples_leaf=3, min_samples_split=10, n_estimators=10, tota
l=   1.8s
[CV]  bootstrap=True, criterion=mse, max_depth=6, max_features=aut
o, min_samples_leaf=5, min_samples_split=12, n_estimators=8, total
=  15.3s
[CV]  bootstrap=True, criterion=mse, max_depth=6, max_features=sqr
t, min_samples_leaf=3, min_samples_split=10, n_estimators=10, tota
l=   1.8s
[CV] bootstrap=True, criterion=mse, max_depth=6, max_features=sqrt
, min_samples_leaf=3, min_samples_split=12, n_estimators=5
[CV] bootstrap=True, criterion=mse, max_depth=6, max_features=sqrt
, min_samples_leaf=3, min_samples_split=12, n_estimators=5
[CV]  bootstrap=True, criterion=mse, max_depth=6, max_features=sqr
t, min_samples_leaf=3, min_samples_split=12, n_estimators=4, total
=   0.8s
[CV] bootstrap=True, criterion=mse, max_depth=6, max_features=sqrt
, min_samples_leaf=3, min_samples_split=12, n_estimators=5
[CV]  bootstrap=True, criterion=mse, max_depth=6, max_features=sqr
t, min_samples_leaf=3, min_samples_split=12, n_estimators=4, total
=   0.8s
[CV]  bootstrap=True, criterion=mse, max_depth=6, max_features=sqr
t, min_samples_leaf=3, min_samples_split=12, n_estimators=4, total
=   0.7s
[CV] bootstrap=True, criterion=mse, max_depth=6, max_features=sqrt
, min_samples_leaf=3, min_samples_split=12, n_estimators=5
[CV] bootstrap=True, criterion=mse, max_depth=6, max_features=sqrt
, min_samples_leaf=3, min_samples_split=12, n_estimators=6
[CV]  bootstrap=True, criterion=mse, max_depth=6, max_features=sqr
t, min_samples_leaf=3, min_samples_split=12, n_estimators=4, total
=   0.8s
[CV] bootstrap=True, criterion=mse, max_depth=6, max_features=sqrt
, min_samples_leaf=3, min_samples_split=12, n_estimators=6
[CV]  bootstrap=True, criterion=mse, max_depth=6, max_features=sqr
t, min_samples_leaf=3, min_samples_split=12, n_estimators=4, total
=   0.7s
```

```
[CV]  bootstrap=True, criterion=mse, max_depth=6, max_features=aut
o, min_samples_leaf=5, min_samples_split=12, n_estimators=9, total
=   15.2s
[CV] bootstrap=True, criterion=mse, max_depth=6, max_features=sqrt
, min_samples_leaf=3, min_samples_split=12, n_estimators=6
[CV] bootstrap=True, criterion=mse, max_depth=6, max_features=sqrt
, min_samples_leaf=3, min_samples_split=12, n_estimators=6
[CV]  bootstrap=True, criterion=mse, max_depth=6, max_features=sqr
t, min_samples_leaf=3, min_samples_split=12, n_estimators=5, total
=    0.8s
[CV]  bootstrap=True, criterion=mse, max_depth=6, max_features=aut
o, min_samples_leaf=5, min_samples_split=12, n_estimators=9, total
=   15.8s
[CV]  bootstrap=True, criterion=mse, max_depth=6, max_features=aut
o, min_samples_leaf=5, min_samples_split=12, n_estimators=9, total
=   15.7s
[CV] bootstrap=True, criterion=mse, max_depth=6, max_features=sqrt
, min_samples_leaf=3, min_samples_split=12, n_estimators=6
[CV]  bootstrap=True, criterion=mse, max_depth=6, max_features=sqr
t, min_samples_leaf=3, min_samples_split=12, n_estimators=5, total
=    0.8s
[CV] bootstrap=True, criterion=mse, max_depth=6, max_features=sqrt
, min_samples_leaf=3, min_samples_split=12, n_estimators=7
[CV] bootstrap=True, criterion=mse, max_depth=6, max_features=sqrt
, min_samples_leaf=3, min_samples_split=12, n_estimators=7
[CV]  bootstrap=True, criterion=mse, max_depth=6, max_features=aut
o, min_samples_leaf=5, min_samples_split=12, n_estimators=9, total
=   15.9s
[CV] bootstrap=True, criterion=mse, max_depth=6, max_features=sqrt
, min_samples_leaf=3, min_samples_split=12, n_estimators=7
[CV]  bootstrap=True, criterion=mse, max_depth=6, max_features=sqr
t, min_samples_leaf=3, min_samples_split=12, n_estimators=5, total
=    0.8s
[CV]  bootstrap=True, criterion=mse, max_depth=6, max_features=sqr
t, min_samples_leaf=3, min_samples_split=12, n_estimators=5, total
=    0.9s
[CV]  bootstrap=True, criterion=mse, max_depth=6, max_features=aut
o, min_samples_leaf=5, min_samples_split=12, n_estimators=9, total
=   16.3s
[CV] bootstrap=True, criterion=mse, max_depth=6, max_features=sqrt
, min_samples_leaf=3, min_samples_split=12, n_estimators=7
[CV]  bootstrap=True, criterion=mse, max_depth=6, max_features=sqr
t, min_samples_leaf=3, min_samples_split=12, n_estimators=5, total
=    0.9s
[CV] bootstrap=True, criterion=mse, max_depth=6, max_features=sqrt
, min_samples_leaf=3, min_samples_split=12, n_estimators=7
[CV] bootstrap=True, criterion=mse, max_depth=6, max_features=sqrt
, min_samples_leaf=3, min_samples_split=12, n_estimators=8
[CV] bootstrap=True, criterion=mse, max_depth=6, max_features=sqrt
, min_samples_leaf=3, min_samples_split=12, n_estimators=8
[CV]  bootstrap=True, criterion=mse, max_depth=6, max_features=sqr
t, min_samples_leaf=3, min_samples_split=12, n_estimators=6, total
=    1.1s
[CV]  bootstrap=True, criterion=mse, max_depth=6, max_features=sqr
```

```
t, min_samples_leaf=3, min_samples_split=12, n_estimators=6, total
=   1.0s
[CV] bootstrap=True, criterion=mse, max_depth=6, max_features=sqrt
, min_samples_leaf=3, min_samples_split=12, n_estimators=8
[CV] bootstrap=True, criterion=mse, max_depth=6, max_features=sqrt
, min_samples_leaf=3, min_samples_split=12, n_estimators=8
[CV]  bootstrap=True, criterion=mse, max_depth=6, max_features=sqr
t, min_samples_leaf=3, min_samples_split=12, n_estimators=6, total
=   1.0s
[CV]  bootstrap=True, criterion=mse, max_depth=6, max_features=sqr
t, min_samples_leaf=3, min_samples_split=12, n_estimators=6, total
=   0.9s
[CV] bootstrap=True, criterion=mse, max_depth=6, max_features=sqrt
, min_samples_leaf=3, min_samples_split=12, n_estimators=8
[CV]  bootstrap=True, criterion=mse, max_depth=6, max_features=sqr
t, min_samples_leaf=3, min_samples_split=12, n_estimators=6, total
=   0.9s
[CV] bootstrap=True, criterion=mse, max_depth=6, max_features=sqrt
, min_samples_leaf=3, min_samples_split=12, n_estimators=9
[CV]  bootstrap=True, criterion=mse, max_depth=6, max_features=aut
o, min_samples_leaf=5, min_samples_split=12, n_estimators=10, tota
l=  16.3s
[CV] bootstrap=True, criterion=mse, max_depth=6, max_features=sqrt
, min_samples_leaf=3, min_samples_split=12, n_estimators=9
[CV] bootstrap=True, criterion=mse, max_depth=6, max_features=sqrt
, min_samples_leaf=3, min_samples_split=12, n_estimators=9
[CV]  bootstrap=True, criterion=mse, max_depth=6, max_features=sqr
t, min_samples_leaf=3, min_samples_split=12, n_estimators=7, total
=   1.1s
[CV] bootstrap=True, criterion=mse, max_depth=6, max_features=sqrt
, min_samples_leaf=3, min_samples_split=12, n_estimators=9
[CV]  bootstrap=True, criterion=mse, max_depth=6, max_features=aut
o, min_samples_leaf=5, min_samples_split=12, n_estimators=10, tota
l=  16.3s
[CV]  bootstrap=True, criterion=mse, max_depth=6, max_features=sqr
t, min_samples_leaf=3, min_samples_split=12, n_estimators=7, total
=   1.1s
[CV] bootstrap=True, criterion=mse, max_depth=6, max_features=sqrt
, min_samples_leaf=3, min_samples_split=12, n_estimators=9
[CV]  bootstrap=True, criterion=mse, max_depth=6, max_features=sqr
t, min_samples_leaf=3, min_samples_split=12, n_estimators=7, total
=   1.2s
[CV] bootstrap=True, criterion=mse, max_depth=6, max_features=sqrt
, min_samples_leaf=3, min_samples_split=12, n_estimators=10
[CV]  bootstrap=True, criterion=mse, max_depth=6, max_features=sqr
t, min_samples_leaf=3, min_samples_split=12, n_estimators=7, total
=   1.1s
[CV]  bootstrap=True, criterion=mse, max_depth=6, max_features=aut
o, min_samples_leaf=5, min_samples_split=12, n_estimators=10, tota
l=  16.7s
[CV] bootstrap=True, criterion=mse, max_depth=6, max_features=sqrt
, min_samples_leaf=3, min_samples_split=12, n_estimators=10
[CV]  bootstrap=True, criterion=mse, max_depth=6, max_features=sqr
t, min_samples_leaf=3, min_samples_split=12, n_estimators=7, total
```

```
=     1.2s
[CV] bootstrap=True, criterion=mse, max_depth=6, max_features=sqrt
, min_samples_leaf=3, min_samples_split=12, n_estimators=10
[CV]  bootstrap=True, criterion=mse, max_depth=6, max_features=aut
o, min_samples_leaf=5, min_samples_split=12, n_estimators=10, tota
l=  17.1s
[CV]  bootstrap=True, criterion=mse, max_depth=6, max_features=aut
o, min_samples_leaf=5, min_samples_split=12, n_estimators=10, tota
l=  16.0s
[CV] bootstrap=True, criterion=mse, max_depth=6, max_features=sqrt
, min_samples_leaf=3, min_samples_split=12, n_estimators=10
[CV]  bootstrap=True, criterion=mse, max_depth=6, max_features=sqr
t, min_samples_leaf=3, min_samples_split=12, n_estimators=8, total
=     1.3s
[CV] bootstrap=True, criterion=mse, max_depth=6, max_features=sqrt
, min_samples_leaf=3, min_samples_split=12, n_estimators=10
[CV] bootstrap=True, criterion=mse, max_depth=6, max_features=sqrt
, min_samples_leaf=4, min_samples_split=8, n_estimators=2
[CV]  bootstrap=True, criterion=mse, max_depth=6, max_features=sqr
t, min_samples_leaf=3, min_samples_split=12, n_estimators=8, total
=     1.3s
[CV]  bootstrap=True, criterion=mse, max_depth=6, max_features=sqr
t, min_samples_leaf=3, min_samples_split=12, n_estimators=8, total
=     1.3s
[CV] bootstrap=True, criterion=mse, max_depth=6, max_features=sqrt
, min_samples_leaf=4, min_samples_split=8, n_estimators=2
[CV] bootstrap=True, criterion=mse, max_depth=6, max_features=sqrt
, min_samples_leaf=4, min_samples_split=8, n_estimators=2
[CV]  bootstrap=True, criterion=mse, max_depth=6, max_features=sqr
t, min_samples_leaf=3, min_samples_split=12, n_estimators=8, total
=     1.4s
[CV]  bootstrap=True, criterion=mse, max_depth=6, max_features=sqr
t, min_samples_leaf=3, min_samples_split=12, n_estimators=8, total
=     1.3s
[CV] bootstrap=True, criterion=mse, max_depth=6, max_features=sqrt
, min_samples_leaf=4, min_samples_split=8, n_estimators=2
[CV] bootstrap=True, criterion=mse, max_depth=6, max_features=sqrt
, min_samples_leaf=4, min_samples_split=8, n_estimators=2
[CV] bootstrap=True, criterion=mse, max_depth=6, max_features=sqrt
, min_samples_leaf=4, min_samples_split=8, n_estimators=3
[CV]  bootstrap=True, criterion=mse, max_depth=6, max_features=sqr
t, min_samples_leaf=4, min_samples_split=8, n_estimators=2, total=
0.5s
[CV]  bootstrap=True, criterion=mse, max_depth=6, max_features=sqr
t, min_samples_leaf=4, min_samples_split=8, n_estimators=2, total=
0.4s
[CV]  bootstrap=True, criterion=mse, max_depth=6, max_features=sqr
t, min_samples_leaf=3, min_samples_split=12, n_estimators=9, total
=     1.5s
[CV] bootstrap=True, criterion=mse, max_depth=6, max_features=sqrt
, min_samples_leaf=4, min_samples_split=8, n_estimators=3
[CV]  bootstrap=True, criterion=mse, max_depth=6, max_features=sqr
t, min_samples_leaf=3, min_samples_split=12, n_estimators=9, total
=     1.5s
```

```
[CV]   bootstrap=True, criterion=mse, max_depth=6, max_features=sqr
t, min_samples_leaf=4, min_samples_split=8, n_estimators=2, total=
0.3s
[CV]   bootstrap=True, criterion=mse, max_depth=6, max_features=sqr
t, min_samples_leaf=4, min_samples_split=8, n_estimators=2, total=
0.4s
[CV] bootstrap=True, criterion=mse, max_depth=6, max_features=sqrt
, min_samples_leaf=4, min_samples_split=8, n_estimators=3
[CV]   bootstrap=True, criterion=mse, max_depth=6, max_features=sqr
t, min_samples_leaf=3, min_samples_split=12, n_estimators=9, total
=   1.5s
[CV] bootstrap=True, criterion=mse, max_depth=6, max_features=sqrt
, min_samples_leaf=4, min_samples_split=8, n_estimators=3
[CV]   bootstrap=True, criterion=mse, max_depth=6, max_features=sqr
t, min_samples_leaf=4, min_samples_split=8, n_estimators=2, total=
0.3s
[CV]   bootstrap=True, criterion=mse, max_depth=6, max_features=sqr
t, min_samples_leaf=3, min_samples_split=12, n_estimators=9, total
=   1.4s

[Parallel(n_jobs=-1)]: Done 1346 tasks      | elapsed:  3.2min

[CV] bootstrap=True, criterion=mse, max_depth=6, max_features=sqrt
, min_samples_leaf=4, min_samples_split=8, n_estimators=3
[CV]   bootstrap=True, criterion=mse, max_depth=6, max_features=sqr
t, min_samples_leaf=3, min_samples_split=12, n_estimators=9, total
=   1.5s
[CV] bootstrap=True, criterion=mse, max_depth=6, max_features=sqrt
, min_samples_leaf=4, min_samples_split=8, n_estimators=4
[CV] bootstrap=True, criterion=mse, max_depth=6, max_features=sqrt
, min_samples_leaf=4, min_samples_split=8, n_estimators=4
[CV]   bootstrap=True, criterion=mse, max_depth=6, max_features=sqr
t, min_samples_leaf=4, min_samples_split=8, n_estimators=3, total=
0.5s
[CV]   bootstrap=True, criterion=mse, max_depth=6, max_features=sqr
t, min_samples_leaf=3, min_samples_split=12, n_estimators=10, tota
l=   1.5s
[CV] bootstrap=True, criterion=mse, max_depth=6, max_features=sqrt
, min_samples_leaf=4, min_samples_split=8, n_estimators=4
[CV]   bootstrap=True, criterion=mse, max_depth=6, max_features=sqr
t, min_samples_leaf=3, min_samples_split=12, n_estimators=10, tota
l=   1.6s
[CV]   bootstrap=True, criterion=mse, max_depth=6, max_features=sqr
t, min_samples_leaf=4, min_samples_split=8, n_estimators=3, total=
0.6s
[CV] bootstrap=True, criterion=mse, max_depth=6, max_features=sqrt
, min_samples_leaf=4, min_samples_split=8, n_estimators=4
[CV]   bootstrap=True, criterion=mse, max_depth=6, max_features=sqr
t, min_samples_leaf=4, min_samples_split=8, n_estimators=3, total=
0.6s
[CV]   bootstrap=True, criterion=mse, max_depth=6, max_features=sqr
t, min_samples_leaf=3, min_samples_split=12, n_estimators=10, tota
l=   1.6s
[CV] bootstrap=True, criterion=mse, max_depth=6, max_features=sqrt
```

```
, min_samples_leaf=4, min_samples_split=8, n_estimators=4
[CV]  bootstrap=True, criterion=mse, max_depth=6, max_features=sqr
t, min_samples_leaf=4, min_samples_split=8, n_estimators=3, total=
0.5s
[CV]  bootstrap=True, criterion=mse, max_depth=6, max_features=sqr
t, min_samples_leaf=3, min_samples_split=12, n_estimators=10, tota
l=   1.5s
[CV] bootstrap=True, criterion=mse, max_depth=6, max_features=sqrt
, min_samples_leaf=4, min_samples_split=8, n_estimators=5
[CV]  bootstrap=True, criterion=mse, max_depth=6, max_features=sqr
t, min_samples_leaf=4, min_samples_split=8, n_estimators=3, total=
0.5s
[CV] bootstrap=True, criterion=mse, max_depth=6, max_features=sqrt
, min_samples_leaf=4, min_samples_split=8, n_estimators=5
[CV] bootstrap=True, criterion=mse, max_depth=6, max_features=sqrt
, min_samples_leaf=4, min_samples_split=8, n_estimators=5
[CV]  bootstrap=True, criterion=mse, max_depth=6, max_features=sqr
t, min_samples_leaf=4, min_samples_split=8, n_estimators=4, total=
0.7s
[CV]  bootstrap=True, criterion=mse, max_depth=6, max_features=sqr
t, min_samples_leaf=3, min_samples_split=12, n_estimators=10, tota
l=   1.7s
[CV] bootstrap=True, criterion=mse, max_depth=6, max_features=sqrt
, min_samples_leaf=4, min_samples_split=8, n_estimators=5
[CV]  bootstrap=True, criterion=mse, max_depth=6, max_features=sqr
t, min_samples_leaf=4, min_samples_split=8, n_estimators=4, total=
0.7s
[CV] bootstrap=True, criterion=mse, max_depth=6, max_features=sqrt
, min_samples_leaf=4, min_samples_split=8, n_estimators=5
[CV]  bootstrap=True, criterion=mse, max_depth=6, max_features=sqr
t, min_samples_leaf=4, min_samples_split=8, n_estimators=4, total=
0.7s
[CV] bootstrap=True, criterion=mse, max_depth=6, max_features=sqrt
, min_samples_leaf=4, min_samples_split=8, n_estimators=6
[CV]  bootstrap=True, criterion=mse, max_depth=6, max_features=sqr
t, min_samples_leaf=4, min_samples_split=8, n_estimators=4, total=
0.7s
[CV]  bootstrap=True, criterion=mse, max_depth=6, max_features=sqr
t, min_samples_leaf=4, min_samples_split=8, n_estimators=4, total=
0.7s
[CV] bootstrap=True, criterion=mse, max_depth=6, max_features=sqrt
, min_samples_leaf=4, min_samples_split=8, n_estimators=6
[CV] bootstrap=True, criterion=mse, max_depth=6, max_features=sqrt
, min_samples_leaf=4, min_samples_split=8, n_estimators=6
[CV]  bootstrap=True, criterion=mse, max_depth=6, max_features=sqr
t, min_samples_leaf=4, min_samples_split=8, n_estimators=5, total=
0.8s
[CV] bootstrap=True, criterion=mse, max_depth=6, max_features=sqrt
, min_samples_leaf=4, min_samples_split=8, n_estimators=6
[CV]  bootstrap=True, criterion=mse, max_depth=6, max_features=sqr
t, min_samples_leaf=4, min_samples_split=8, n_estimators=5, total=
0.8s
[CV] bootstrap=True, criterion=mse, max_depth=6, max_features=sqrt
, min_samples_leaf=4, min_samples_split=8, n_estimators=6
```

```
[CV]  bootstrap=True, criterion=mse, max_depth=6, max_features=sqr
t, min_samples_leaf=4, min_samples_split=8, n_estimators=5, total=
0.8s
[CV]  bootstrap=True, criterion=mse, max_depth=6, max_features=sqr
t, min_samples_leaf=4, min_samples_split=8, n_estimators=5, total=
0.8s
[CV] bootstrap=True, criterion=mse, max_depth=6, max_features=sqrt
, min_samples_leaf=4, min_samples_split=8, n_estimators=7
[CV]  bootstrap=True, criterion=mse, max_depth=6, max_features=sqr
t, min_samples_leaf=4, min_samples_split=8, n_estimators=5, total=
0.8s
[CV] bootstrap=True, criterion=mse, max_depth=6, max_features=sqrt
, min_samples_leaf=4, min_samples_split=8, n_estimators=7
[CV] bootstrap=True, criterion=mse, max_depth=6, max_features=sqrt
, min_samples_leaf=4, min_samples_split=8, n_estimators=7
[CV]  bootstrap=True, criterion=mse, max_depth=6, max_features=sqr
t, min_samples_leaf=4, min_samples_split=8, n_estimators=6, total=
0.9s
[CV] bootstrap=True, criterion=mse, max_depth=6, max_features=sqrt
, min_samples_leaf=4, min_samples_split=8, n_estimators=7
[CV] bootstrap=True, criterion=mse, max_depth=6, max_features=sqrt
, min_samples_leaf=4, min_samples_split=8, n_estimators=7
[CV]  bootstrap=True, criterion=mse, max_depth=6, max_features=sqr
t, min_samples_leaf=4, min_samples_split=8, n_estimators=6, total=
0.9s
[CV] bootstrap=True, criterion=mse, max_depth=6, max_features=sqrt
, min_samples_leaf=4, min_samples_split=8, n_estimators=8
[CV]  bootstrap=True, criterion=mse, max_depth=6, max_features=sqr
t, min_samples_leaf=4, min_samples_split=8, n_estimators=6, total=
0.9s
[CV] bootstrap=True, criterion=mse, max_depth=6, max_features=sqrt
, min_samples_leaf=4, min_samples_split=8, n_estimators=8
[CV]  bootstrap=True, criterion=mse, max_depth=6, max_features=sqr
t, min_samples_leaf=4, min_samples_split=8, n_estimators=6, total=
0.9s
[CV] bootstrap=True, criterion=mse, max_depth=6, max_features=sqrt
, min_samples_leaf=4, min_samples_split=8, n_estimators=8
[CV]  bootstrap=True, criterion=mse, max_depth=6, max_features=sqr
t, min_samples_leaf=4, min_samples_split=8, n_estimators=6, total=
1.0s
[CV] bootstrap=True, criterion=mse, max_depth=6, max_features=sqrt
, min_samples_leaf=4, min_samples_split=8, n_estimators=8
[CV]  bootstrap=True, criterion=mse, max_depth=6, max_features=sqr
t, min_samples_leaf=4, min_samples_split=8, n_estimators=7, total=
1.0s
[CV] bootstrap=True, criterion=mse, max_depth=6, max_features=sqrt
, min_samples_leaf=4, min_samples_split=8, n_estimators=8
[CV] bootstrap=True, criterion=mse, max_depth=6, max_features=sqrt
, min_samples_leaf=4, min_samples_split=8, n_estimators=9
[CV] bootstrap=True, criterion=mse, max_depth=6, max_features=sqrt
, min_samples_leaf=4, min_samples_split=8, n_estimators=9
[CV]  bootstrap=True, criterion=mse, max_depth=6, max_features=sqr
t, min_samples_leaf=4, min_samples_split=8, n_estimators=7, total=
1.2s
```

```
[CV] bootstrap=True, criterion=mse, max_depth=6, max_features=sqrt
, min_samples_leaf=4, min_samples_split=8, n_estimators=9
[CV]  bootstrap=True, criterion=mse, max_depth=6, max_features=sqr
t, min_samples_leaf=4, min_samples_split=8, n_estimators=7, total=
1.1s
[CV] bootstrap=True, criterion=mse, max_depth=6, max_features=sqrt
, min_samples_leaf=4, min_samples_split=8, n_estimators=9
[CV] bootstrap=True, criterion=mse, max_depth=6, max_features=sqrt
, min_samples_leaf=4, min_samples_split=8, n_estimators=9
[CV]  bootstrap=True, criterion=mse, max_depth=6, max_features=sqr
t, min_samples_leaf=4, min_samples_split=8, n_estimators=7, total=
1.2s
[CV]  bootstrap=True, criterion=mse, max_depth=6, max_features=sqr
t, min_samples_leaf=4, min_samples_split=8, n_estimators=7, total=
1.1s
[CV] bootstrap=True, criterion=mse, max_depth=6, max_features=sqrt
, min_samples_leaf=4, min_samples_split=8, n_estimators=10
[CV] bootstrap=True, criterion=mse, max_depth=6, max_features=sqrt
, min_samples_leaf=4, min_samples_split=8, n_estimators=10
[CV]  bootstrap=True, criterion=mse, max_depth=6, max_features=sqr
t, min_samples_leaf=4, min_samples_split=8, n_estimators=8, total=
1.3s
[CV] bootstrap=True, criterion=mse, max_depth=6, max_features=sqrt
, min_samples_leaf=4, min_samples_split=8, n_estimators=10
[CV]  bootstrap=True, criterion=mse, max_depth=6, max_features=sqr
t, min_samples_leaf=4, min_samples_split=8, n_estimators=8, total=
1.3s
[CV] bootstrap=True, criterion=mse, max_depth=6, max_features=sqrt
, min_samples_leaf=4, min_samples_split=8, n_estimators=10
[CV]  bootstrap=True, criterion=mse, max_depth=6, max_features=sqr
t, min_samples_leaf=4, min_samples_split=8, n_estimators=8, total=
1.2s
[CV] bootstrap=True, criterion=mse, max_depth=6, max_features=sqrt
, min_samples_leaf=4, min_samples_split=8, n_estimators=10
[CV] bootstrap=True, criterion=mse, max_depth=6, max_features=sqrt
, min_samples_leaf=4, min_samples_split=10, n_estimators=2
[CV]  bootstrap=True, criterion=mse, max_depth=6, max_features=sqr
t, min_samples_leaf=4, min_samples_split=8, n_estimators=8, total=
1.2s
[CV] bootstrap=True, criterion=mse, max_depth=6, max_features=sqrt
, min_samples_leaf=4, min_samples_split=10, n_estimators=2
[CV] bootstrap=True, criterion=mse, max_depth=6, max_features=sqrt
, min_samples_leaf=4, min_samples_split=10, n_estimators=2
[CV]  bootstrap=True, criterion=mse, max_depth=6, max_features=sqr
t, min_samples_leaf=4, min_samples_split=8, n_estimators=8, total=
1.3s
[CV] bootstrap=True, criterion=mse, max_depth=6, max_features=sqrt
, min_samples_leaf=4, min_samples_split=10, n_estimators=2
[CV] bootstrap=True, criterion=mse, max_depth=6, max_features=sqrt
, min_samples_leaf=4, min_samples_split=10, n_estimators=2
[CV]  bootstrap=True, criterion=mse, max_depth=6, max_features=sqr
t, min_samples_leaf=4, min_samples_split=10, n_estimators=2, total
=   0.4s
[CV]  bootstrap=True, criterion=mse, max_depth=6, max_features=sqr
```

```
t, min_samples_leaf=4, min_samples_split=8, n_estimators=9, total=
1.4s
[CV] bootstrap=True, criterion=mse, max_depth=6, max_features=sqrt
, min_samples_leaf=4, min_samples_split=10, n_estimators=3
[CV]  bootstrap=True, criterion=mse, max_depth=6, max_features=sqr
t, min_samples_leaf=4, min_samples_split=10, n_estimators=2, total
=   0.4s
[CV] bootstrap=True, criterion=mse, max_depth=6, max_features=sqrt
, min_samples_leaf=4, min_samples_split=10, n_estimators=3
[CV]  bootstrap=True, criterion=mse, max_depth=6, max_features=sqr
t, min_samples_leaf=4, min_samples_split=8, n_estimators=9, total=
1.5s
[CV]  bootstrap=True, criterion=mse, max_depth=6, max_features=sqr
t, min_samples_leaf=4, min_samples_split=8, n_estimators=9, total=
1.4s
[CV]  bootstrap=True, criterion=mse, max_depth=6, max_features=sqr
t, min_samples_leaf=4, min_samples_split=10, n_estimators=2, total
=   0.4s
[CV] bootstrap=True, criterion=mse, max_depth=6, max_features=sqrt
, min_samples_leaf=4, min_samples_split=10, n_estimators=3
[CV]  bootstrap=True, criterion=mse, max_depth=6, max_features=sqr
t, min_samples_leaf=4, min_samples_split=10, n_estimators=2, total
=   0.4s
[CV]  bootstrap=True, criterion=mse, max_depth=6, max_features=sqr
t, min_samples_leaf=4, min_samples_split=8, n_estimators=9, total=
1.4s
[CV] bootstrap=True, criterion=mse, max_depth=6, max_features=sqrt
, min_samples_leaf=4, min_samples_split=10, n_estimators=3
[CV]  bootstrap=True, criterion=mse, max_depth=6, max_features=sqr
t, min_samples_leaf=4, min_samples_split=10, n_estimators=2, total
=   0.4s
[CV] bootstrap=True, criterion=mse, max_depth=6, max_features=sqrt
, min_samples_leaf=4, min_samples_split=10, n_estimators=3
[CV]  bootstrap=True, criterion=mse, max_depth=6, max_features=sqr
t, min_samples_leaf=4, min_samples_split=8, n_estimators=9, total=
1.6s
[CV] bootstrap=True, criterion=mse, max_depth=6, max_features=sqrt
, min_samples_leaf=4, min_samples_split=10, n_estimators=4
[CV]  bootstrap=True, criterion=mse, max_depth=6, max_features=sqr
t, min_samples_leaf=4, min_samples_split=10, n_estimators=3, total
=   0.6s
[CV]  bootstrap=True, criterion=mse, max_depth=6, max_features=sqr
t, min_samples_leaf=4, min_samples_split=8, n_estimators=10, total
=   1.6s
[CV] bootstrap=True, criterion=mse, max_depth=6, max_features=sqrt
, min_samples_leaf=4, min_samples_split=10, n_estimators=4
[CV]  bootstrap=True, criterion=mse, max_depth=6, max_features=sqr
t, min_samples_leaf=4, min_samples_split=10, n_estimators=3, total
=   0.5s
[CV]  bootstrap=True, criterion=mse, max_depth=6, max_features=sqr
t, min_samples_leaf=4, min_samples_split=8, n_estimators=10, total
=   1.5s
[CV] bootstrap=True, criterion=mse, max_depth=6, max_features=sqrt
, min_samples_leaf=4, min_samples_split=10, n_estimators=4
```

```
[CV]  bootstrap=True, criterion=mse, max_depth=6, max_features=sqr
t, min_samples_leaf=4, min_samples_split=10, n_estimators=3, total
=   0.5s
[CV] bootstrap=True, criterion=mse, max_depth=6, max_features=sqrt
, min_samples_leaf=4, min_samples_split=10, n_estimators=4
[CV]  bootstrap=True, criterion=mse, max_depth=6, max_features=sqr
t, min_samples_leaf=4, min_samples_split=8, n_estimators=10, total
=   1.6s
[CV]  bootstrap=True, criterion=mse, max_depth=6, max_features=sqr
t, min_samples_leaf=4, min_samples_split=10, n_estimators=3, total
=   0.5s
[CV] bootstrap=True, criterion=mse, max_depth=6, max_features=sqrt
, min_samples_leaf=4, min_samples_split=10, n_estimators=4
[CV]  bootstrap=True, criterion=mse, max_depth=6, max_features=sqr
t, min_samples_leaf=4, min_samples_split=8, n_estimators=10, total
=   1.6s
[CV] bootstrap=True, criterion=mse, max_depth=6, max_features=sqrt
, min_samples_leaf=4, min_samples_split=10, n_estimators=5
[CV]  bootstrap=True, criterion=mse, max_depth=6, max_features=sqr
t, min_samples_leaf=4, min_samples_split=8, n_estimators=10, total
=   1.6s
[CV]  bootstrap=True, criterion=mse, max_depth=6, max_features=sqr
t, min_samples_leaf=4, min_samples_split=10, n_estimators=3, total
=   0.6s
[CV] bootstrap=True, criterion=mse, max_depth=6, max_features=sqrt
, min_samples_leaf=4, min_samples_split=10, n_estimators=5
[CV]  bootstrap=True, criterion=mse, max_depth=6, max_features=sqr
t, min_samples_leaf=4, min_samples_split=10, n_estimators=4, total
=   0.7s
[CV] bootstrap=True, criterion=mse, max_depth=6, max_features=sqrt
, min_samples_leaf=4, min_samples_split=10, n_estimators=5
[CV]  bootstrap=True, criterion=mse, max_depth=6, max_features=sqr
t, min_samples_leaf=4, min_samples_split=10, n_estimators=4, total
=   0.6s
[CV]  bootstrap=True, criterion=mse, max_depth=6, max_features=sqr
t, min_samples_leaf=4, min_samples_split=10, n_estimators=4, total
=   0.7s
[CV] bootstrap=True, criterion=mse, max_depth=6, max_features=sqrt
, min_samples_leaf=4, min_samples_split=10, n_estimators=5
[CV]  bootstrap=True, criterion=mse, max_depth=6, max_features=sqr
t, min_samples_leaf=4, min_samples_split=10, n_estimators=4, total
=   0.6s
[CV] bootstrap=True, criterion=mse, max_depth=6, max_features=sqrt
, min_samples_leaf=4, min_samples_split=10, n_estimators=5
[CV]  bootstrap=True, criterion=mse, max_depth=6, max_features=sqr
t, min_samples_leaf=4, min_samples_split=10, n_estimators=4, total
=   0.7s
[CV] bootstrap=True, criterion=mse, max_depth=6, max_features=sqrt
, min_samples_leaf=4, min_samples_split=10, n_estimators=6
[CV] bootstrap=True, criterion=mse, max_depth=6, max_features=sqrt
, min_samples_leaf=4, min_samples_split=10, n_estimators=6
[CV] bootstrap=True, criterion=mse, max_depth=6, max_features=sqrt
, min_samples_leaf=4, min_samples_split=10, n_estimators=6
[CV]  bootstrap=True, criterion=mse, max_depth=6, max_features=sqr
```

```
t, min_samples_leaf=4, min_samples_split=10, n_estimators=5, total
=   0.8s
[CV]  bootstrap=True, criterion=mse, max_depth=6, max_features=sqr
t, min_samples_leaf=4, min_samples_split=10, n_estimators=5, total
=   0.9s
[CV] bootstrap=True, criterion=mse, max_depth=6, max_features=sqrt
, min_samples_leaf=4, min_samples_split=10, n_estimators=6
[CV] bootstrap=True, criterion=mse, max_depth=6, max_features=sqrt
, min_samples_leaf=4, min_samples_split=10, n_estimators=6
[CV]  bootstrap=True, criterion=mse, max_depth=6, max_features=sqr
t, min_samples_leaf=4, min_samples_split=10, n_estimators=5, total
=   0.7s
[CV] bootstrap=True, criterion=mse, max_depth=6, max_features=sqrt
, min_samples_leaf=4, min_samples_split=10, n_estimators=7
[CV] bootstrap=True, criterion=mse, max_depth=6, max_features=sqrt
, min_samples_leaf=4, min_samples_split=10, n_estimators=7
[CV] bootstrap=True, criterion=mse, max_depth=6, max_features=sqrt
, min_samples_leaf=4, min_samples_split=10, n_estimators=7
[CV]  bootstrap=True, criterion=mse, max_depth=6, max_features=sqr
t, min_samples_leaf=4, min_samples_split=10, n_estimators=5, total
=   0.8s
[CV]  bootstrap=True, criterion=mse, max_depth=6, max_features=sqr
t, min_samples_leaf=4, min_samples_split=10, n_estimators=5, total
=   0.9s
[CV] bootstrap=True, criterion=mse, max_depth=6, max_features=sqrt
, min_samples_leaf=4, min_samples_split=10, n_estimators=7
[CV] bootstrap=True, criterion=mse, max_depth=6, max_features=sqrt
, min_samples_leaf=4, min_samples_split=10, n_estimators=7
[CV]  bootstrap=True, criterion=mse, max_depth=6, max_features=sqr
t, min_samples_leaf=4, min_samples_split=10, n_estimators=6, total
=   0.9s
[CV]  bootstrap=True, criterion=mse, max_depth=6, max_features=sqr
t, min_samples_leaf=4, min_samples_split=10, n_estimators=6, total
=   0.9s
[CV] bootstrap=True, criterion=mse, max_depth=6, max_features=sqrt
, min_samples_leaf=4, min_samples_split=10, n_estimators=8
[CV] bootstrap=True, criterion=mse, max_depth=6, max_features=sqrt
, min_samples_leaf=4, min_samples_split=10, n_estimators=8
[CV]  bootstrap=True, criterion=mse, max_depth=6, max_features=sqr
t, min_samples_leaf=4, min_samples_split=10, n_estimators=6, total
=   1.0s
[CV]  bootstrap=True, criterion=mse, max_depth=6, max_features=sqr
t, min_samples_leaf=4, min_samples_split=10, n_estimators=6, total
=   0.9s
[CV] bootstrap=True, criterion=mse, max_depth=6, max_features=sqrt
, min_samples_leaf=4, min_samples_split=10, n_estimators=8
[CV]  bootstrap=True, criterion=mse, max_depth=6, max_features=sqr
t, min_samples_leaf=4, min_samples_split=10, n_estimators=6, total
=   0.9s
[CV] bootstrap=True, criterion=mse, max_depth=6, max_features=sqrt
, min_samples_leaf=4, min_samples_split=10, n_estimators=8
[CV] bootstrap=True, criterion=mse, max_depth=6, max_features=sqrt
, min_samples_leaf=4, min_samples_split=10, n_estimators=8
[CV] bootstrap=True, criterion=mse, max_depth=6, max_features=sqrt
```

```
, min_samples_leaf=4, min_samples_split=10, n_estimators=9
[CV]  bootstrap=True, criterion=mse, max_depth=6, max_features=sqr
t, min_samples_leaf=4, min_samples_split=10, n_estimators=7, total
=   1.2s
[CV] bootstrap=True, criterion=mse, max_depth=6, max_features=sqrt
, min_samples_leaf=4, min_samples_split=10, n_estimators=9
[CV]  bootstrap=True, criterion=mse, max_depth=6, max_features=sqr
t, min_samples_leaf=4, min_samples_split=10, n_estimators=7, total
=   1.1s
[CV] bootstrap=True, criterion=mse, max_depth=6, max_features=sqrt
, min_samples_leaf=4, min_samples_split=10, n_estimators=9
[CV]  bootstrap=True, criterion=mse, max_depth=6, max_features=sqr
t, min_samples_leaf=4, min_samples_split=10, n_estimators=7, total
=   1.1s
[CV] bootstrap=True, criterion=mse, max_depth=6, max_features=sqrt
, min_samples_leaf=4, min_samples_split=10, n_estimators=9
[CV]  bootstrap=True, criterion=mse, max_depth=6, max_features=sqr
t, min_samples_leaf=4, min_samples_split=10, n_estimators=7, total
=   1.1s
[CV] bootstrap=True, criterion=mse, max_depth=6, max_features=sqrt
, min_samples_leaf=4, min_samples_split=10, n_estimators=9
[CV] bootstrap=True, criterion=mse, max_depth=6, max_features=sqrt
, min_samples_leaf=4, min_samples_split=10, n_estimators=10
[CV]  bootstrap=True, criterion=mse, max_depth=6, max_features=sqr
t, min_samples_leaf=4, min_samples_split=10, n_estimators=7, total
=   1.2s
[CV] bootstrap=True, criterion=mse, max_depth=6, max_features=sqrt
, min_samples_leaf=4, min_samples_split=10, n_estimators=10
[CV]  bootstrap=True, criterion=mse, max_depth=6, max_features=sqr
t, min_samples_leaf=4, min_samples_split=10, n_estimators=8, total
=   1.2s
[CV] bootstrap=True, criterion=mse, max_depth=6, max_features=sqrt
, min_samples_leaf=4, min_samples_split=10, n_estimators=10
[CV] bootstrap=True, criterion=mse, max_depth=6, max_features=sqrt
, min_samples_leaf=4, min_samples_split=10, n_estimators=10
[CV]  bootstrap=True, criterion=mse, max_depth=6, max_features=sqr
t, min_samples_leaf=4, min_samples_split=10, n_estimators=8, total
=   1.3s
[CV] bootstrap=True, criterion=mse, max_depth=6, max_features=sqrt
, min_samples_leaf=4, min_samples_split=10, n_estimators=10
[CV]  bootstrap=True, criterion=mse, max_depth=6, max_features=sqr
t, min_samples_leaf=4, min_samples_split=10, n_estimators=8, total
=   1.2s
[CV]  bootstrap=True, criterion=mse, max_depth=6, max_features=sqr
t, min_samples_leaf=4, min_samples_split=10, n_estimators=8, total
=   1.3s
[CV] bootstrap=True, criterion=mse, max_depth=6, max_features=sqrt
, min_samples_leaf=4, min_samples_split=12, n_estimators=2
[CV] bootstrap=True, criterion=mse, max_depth=6, max_features=sqrt
, min_samples_leaf=4, min_samples_split=12, n_estimators=2
[CV] bootstrap=True, criterion=mse, max_depth=6, max_features=sqrt
, min_samples_leaf=4, min_samples_split=12, n_estimators=2
[CV]  bootstrap=True, criterion=mse, max_depth=6, max_features=sqr
t, min_samples_leaf=4, min_samples_split=10, n_estimators=8, total
```

```
=    1.3s
[CV] bootstrap=True, criterion=mse, max_depth=6, max_features=sqrt
, min_samples_leaf=4, min_samples_split=12, n_estimators=2
[CV] bootstrap=True, criterion=mse, max_depth=6, max_features=sqrt
, min_samples_leaf=4, min_samples_split=12, n_estimators=2
[CV]  bootstrap=True, criterion=mse, max_depth=6, max_features=sqr
t, min_samples_leaf=4, min_samples_split=10, n_estimators=9, total
=    1.5s
[CV] bootstrap=True, criterion=mse, max_depth=6, max_features=sqrt
, min_samples_leaf=4, min_samples_split=12, n_estimators=3
[CV]  bootstrap=True, criterion=mse, max_depth=6, max_features=sqr
t, min_samples_leaf=4, min_samples_split=10, n_estimators=9, total
=    1.4s
[CV]  bootstrap=True, criterion=mse, max_depth=6, max_features=sqr
t, min_samples_leaf=4, min_samples_split=12, n_estimators=2, total
=    0.5s
[CV]  bootstrap=True, criterion=mse, max_depth=6, max_features=sqr
t, min_samples_leaf=4, min_samples_split=12, n_estimators=2, total
=    0.4s
[CV] bootstrap=True, criterion=mse, max_depth=6, max_features=sqrt
, min_samples_leaf=4, min_samples_split=12, n_estimators=3
[CV]  bootstrap=True, criterion=mse, max_depth=6, max_features=sqr
t, min_samples_leaf=4, min_samples_split=10, n_estimators=9, total
=    1.4s
[CV] bootstrap=True, criterion=mse, max_depth=6, max_features=sqrt
, min_samples_leaf=4, min_samples_split=12, n_estimators=3
[CV]  bootstrap=True, criterion=mse, max_depth=6, max_features=sqr
t, min_samples_leaf=4, min_samples_split=12, n_estimators=2, total
=    0.5s
[CV]  bootstrap=True, criterion=mse, max_depth=6, max_features=sqr
t, min_samples_leaf=4, min_samples_split=10, n_estimators=9, total
=    1.4s
[CV]  bootstrap=True, criterion=mse, max_depth=6, max_features=sqr
t, min_samples_leaf=4, min_samples_split=12, n_estimators=2, total
=    0.5s
[CV]  bootstrap=True, criterion=mse, max_depth=6, max_features=sqr
t, min_samples_leaf=4, min_samples_split=12, n_estimators=2, total
=    0.4s
[CV] bootstrap=True, criterion=mse, max_depth=6, max_features=sqrt
, min_samples_leaf=4, min_samples_split=12, n_estimators=3
[CV] bootstrap=True, criterion=mse, max_depth=6, max_features=sqrt
, min_samples_leaf=4, min_samples_split=12, n_estimators=3
[CV] bootstrap=True, criterion=mse, max_depth=6, max_features=sqrt
, min_samples_leaf=4, min_samples_split=12, n_estimators=4
[CV]  bootstrap=True, criterion=mse, max_depth=6, max_features=sqr
t, min_samples_leaf=4, min_samples_split=10, n_estimators=9, total
=    1.6s
[CV]  bootstrap=True, criterion=mse, max_depth=6, max_features=sqr
t, min_samples_leaf=4, min_samples_split=12, n_estimators=3, total
=    0.5s
[CV] bootstrap=True, criterion=mse, max_depth=6, max_features=sqrt
, min_samples_leaf=4, min_samples_split=12, n_estimators=4
[CV]  bootstrap=True, criterion=mse, max_depth=6, max_features=sqr
t, min_samples_leaf=4, min_samples_split=10, n_estimators=10, tota
```

```
l=    1.5s
[CV]  bootstrap=True, criterion=mse, max_depth=6, max_features=sqr
t, min_samples_leaf=4, min_samples_split=12, n_estimators=3, total
=    0.5s
[CV] bootstrap=True, criterion=mse, max_depth=6, max_features=sqrt
, min_samples_leaf=4, min_samples_split=12, n_estimators=4
[CV]  bootstrap=True, criterion=mse, max_depth=6, max_features=sqr
t, min_samples_leaf=4, min_samples_split=10, n_estimators=10, tota
l=    1.5s
[CV]  bootstrap=True, criterion=mse, max_depth=6, max_features=sqr
t, min_samples_leaf=4, min_samples_split=10, n_estimators=10, tota
l=    1.7s
[CV]  bootstrap=True, criterion=mse, max_depth=6, max_features=sqr
t, min_samples_leaf=4, min_samples_split=12, n_estimators=3, total
=    0.6s
[CV]  bootstrap=True, criterion=mse, max_depth=6, max_features=sqr
t, min_samples_leaf=4, min_samples_split=12, n_estimators=3, total
=    0.5s
[CV] bootstrap=True, criterion=mse, max_depth=6, max_features=sqrt
, min_samples_leaf=4, min_samples_split=12, n_estimators=4
[CV]  bootstrap=True, criterion=mse, max_depth=6, max_features=sqr
t, min_samples_leaf=4, min_samples_split=10, n_estimators=10, tota
l=    1.6s
[CV] bootstrap=True, criterion=mse, max_depth=6, max_features=sqrt
, min_samples_leaf=4, min_samples_split=12, n_estimators=4
[CV]  bootstrap=True, criterion=mse, max_depth=6, max_features=sqr
t, min_samples_leaf=4, min_samples_split=10, n_estimators=10, tota
l=    1.5s
[CV]  bootstrap=True, criterion=mse, max_depth=6, max_features=sqr
t, min_samples_leaf=4, min_samples_split=12, n_estimators=3, total
=    0.6s
[CV] bootstrap=True, criterion=mse, max_depth=6, max_features=sqrt
, min_samples_leaf=4, min_samples_split=12, n_estimators=5
[CV] bootstrap=True, criterion=mse, max_depth=6, max_features=sqrt
, min_samples_leaf=4, min_samples_split=12, n_estimators=5
[CV]  bootstrap=True, criterion=mse, max_depth=6, max_features=sqr
t, min_samples_leaf=4, min_samples_split=12, n_estimators=4, total
=    0.6s
[CV] bootstrap=True, criterion=mse, max_depth=6, max_features=sqrt
, min_samples_leaf=4, min_samples_split=12, n_estimators=5
[CV]  bootstrap=True, criterion=mse, max_depth=6, max_features=sqr
t, min_samples_leaf=4, min_samples_split=12, n_estimators=4, total
=    0.7s
[CV] bootstrap=True, criterion=mse, max_depth=6, max_features=sqrt
, min_samples_leaf=4, min_samples_split=12, n_estimators=5
[CV]  bootstrap=True, criterion=mse, max_depth=6, max_features=sqr
t, min_samples_leaf=4, min_samples_split=12, n_estimators=4, total
=    0.7s
[CV]  bootstrap=True, criterion=mse, max_depth=6, max_features=sqr
t, min_samples_leaf=4, min_samples_split=12, n_estimators=4, total
=    0.6s
[CV] bootstrap=True, criterion=mse, max_depth=6, max_features=sqrt
, min_samples_leaf=4, min_samples_split=12, n_estimators=5
[CV]  bootstrap=True, criterion=mse, max_depth=6, max_features=sqr
```

```
t, min_samples_leaf=4, min_samples_split=12, n_estimators=4, total
=   0.6s
[CV] bootstrap=True, criterion=mse, max_depth=6, max_features=sqrt
, min_samples_leaf=4, min_samples_split=12, n_estimators=6
[CV] bootstrap=True, criterion=mse, max_depth=6, max_features=sqrt
, min_samples_leaf=4, min_samples_split=12, n_estimators=6
[CV] bootstrap=True, criterion=mse, max_depth=6, max_features=sqrt
, min_samples_leaf=4, min_samples_split=12, n_estimators=6
[CV]  bootstrap=True, criterion=mse, max_depth=6, max_features=sqr
t, min_samples_leaf=4, min_samples_split=12, n_estimators=5, total
=   0.8s
[CV] bootstrap=True, criterion=mse, max_depth=6, max_features=sqrt
, min_samples_leaf=4, min_samples_split=12, n_estimators=6
[CV]  bootstrap=True, criterion=mse, max_depth=6, max_features=sqr
t, min_samples_leaf=4, min_samples_split=12, n_estimators=5, total
=   0.8s
[CV] bootstrap=True, criterion=mse, max_depth=6, max_features=sqrt
, min_samples_leaf=4, min_samples_split=12, n_estimators=6
[CV] bootstrap=True, criterion=mse, max_depth=6, max_features=sqrt
, min_samples_leaf=4, min_samples_split=12, n_estimators=7
[CV]  bootstrap=True, criterion=mse, max_depth=6, max_features=sqr
t, min_samples_leaf=4, min_samples_split=12, n_estimators=5, total
=   0.8s
[CV]  bootstrap=True, criterion=mse, max_depth=6, max_features=sqr
t, min_samples_leaf=4, min_samples_split=12, n_estimators=5, total
=   0.8s
[CV] bootstrap=True, criterion=mse, max_depth=6, max_features=sqrt
, min_samples_leaf=4, min_samples_split=12, n_estimators=7
[CV] bootstrap=True, criterion=mse, max_depth=6, max_features=sqrt
, min_samples_leaf=4, min_samples_split=12, n_estimators=7
[CV]  bootstrap=True, criterion=mse, max_depth=6, max_features=sqr
t, min_samples_leaf=4, min_samples_split=12, n_estimators=5, total
=   0.8s
[CV] bootstrap=True, criterion=mse, max_depth=6, max_features=sqrt
, min_samples_leaf=4, min_samples_split=12, n_estimators=7
[CV] bootstrap=True, criterion=mse, max_depth=6, max_features=sqrt
, min_samples_leaf=4, min_samples_split=12, n_estimators=7
[CV]  bootstrap=True, criterion=mse, max_depth=6, max_features=sqr
t, min_samples_leaf=4, min_samples_split=12, n_estimators=6, total
=   0.9s
[CV] bootstrap=True, criterion=mse, max_depth=6, max_features=sqrt
, min_samples_leaf=4, min_samples_split=12, n_estimators=8
[CV]  bootstrap=True, criterion=mse, max_depth=6, max_features=sqr
t, min_samples_leaf=4, min_samples_split=12, n_estimators=6, total
=   1.0s
[CV] bootstrap=True, criterion=mse, max_depth=6, max_features=sqrt
, min_samples_leaf=4, min_samples_split=12, n_estimators=8
[CV] bootstrap=True, criterion=mse, max_depth=6, max_features=sqrt
, min_samples_leaf=4, min_samples_split=12, n_estimators=8
[CV]  bootstrap=True, criterion=mse, max_depth=6, max_features=sqr
t, min_samples_leaf=4, min_samples_split=12, n_estimators=6, total
=   1.0s
[CV]  bootstrap=True, criterion=mse, max_depth=6, max_features=sqr
t, min_samples_leaf=4, min_samples_split=12, n_estimators=6, total
```

```
=    0.9s
[CV] bootstrap=True, criterion=mse, max_depth=6, max_features=sqrt
, min_samples_leaf=4, min_samples_split=12, n_estimators=8
[CV] bootstrap=True, criterion=mse, max_depth=6, max_features=sqrt
, min_samples_leaf=4, min_samples_split=12, n_estimators=8
[CV]  bootstrap=True, criterion=mse, max_depth=6, max_features=sqr
t, min_samples_leaf=4, min_samples_split=12, n_estimators=6, total
=    1.0s
[CV] bootstrap=True, criterion=mse, max_depth=6, max_features=sqrt
, min_samples_leaf=4, min_samples_split=12, n_estimators=9
[CV]  bootstrap=True, criterion=mse, max_depth=6, max_features=sqr
t, min_samples_leaf=4, min_samples_split=12, n_estimators=7, total
=    1.1s
[CV] bootstrap=True, criterion=mse, max_depth=6, max_features=sqrt
, min_samples_leaf=4, min_samples_split=12, n_estimators=9
[CV] bootstrap=True, criterion=mse, max_depth=6, max_features=sqrt
, min_samples_leaf=4, min_samples_split=12, n_estimators=9
[CV]  bootstrap=True, criterion=mse, max_depth=6, max_features=sqr
t, min_samples_leaf=4, min_samples_split=12, n_estimators=7, total
=    1.2s
[CV]  bootstrap=True, criterion=mse, max_depth=6, max_features=sqr
t, min_samples_leaf=4, min_samples_split=12, n_estimators=7, total
=    1.1s
[CV] bootstrap=True, criterion=mse, max_depth=6, max_features=sqrt
, min_samples_leaf=4, min_samples_split=12, n_estimators=9
[CV]  bootstrap=True, criterion=mse, max_depth=6, max_features=sqr
t, min_samples_leaf=4, min_samples_split=12, n_estimators=7, total
=    1.1s
[CV] bootstrap=True, criterion=mse, max_depth=6, max_features=sqrt
, min_samples_leaf=4, min_samples_split=12, n_estimators=9
[CV] bootstrap=True, criterion=mse, max_depth=6, max_features=sqrt
, min_samples_leaf=4, min_samples_split=12, n_estimators=10
[CV]  bootstrap=True, criterion=mse, max_depth=6, max_features=sqr
t, min_samples_leaf=4, min_samples_split=12, n_estimators=7, total
=    1.2s
[CV] bootstrap=True, criterion=mse, max_depth=6, max_features=sqrt
, min_samples_leaf=4, min_samples_split=12, n_estimators=10
[CV] bootstrap=True, criterion=mse, max_depth=6, max_features=sqrt
, min_samples_leaf=4, min_samples_split=12, n_estimators=10
[CV] bootstrap=True, criterion=mse, max_depth=6, max_features=sqrt
, min_samples_leaf=4, min_samples_split=12, n_estimators=10
[CV]  bootstrap=True, criterion=mse, max_depth=6, max_features=sqr
t, min_samples_leaf=4, min_samples_split=12, n_estimators=8, total
=    1.2s
[CV]  bootstrap=True, criterion=mse, max_depth=6, max_features=sqr
t, min_samples_leaf=4, min_samples_split=12, n_estimators=8, total
=    1.3s
[CV] bootstrap=True, criterion=mse, max_depth=6, max_features=sqrt
, min_samples_leaf=4, min_samples_split=12, n_estimators=10
[CV]  bootstrap=True, criterion=mse, max_depth=6, max_features=sqr
t, min_samples_leaf=4, min_samples_split=12, n_estimators=8, total
=    1.3s
[CV] bootstrap=True, criterion=mse, max_depth=6, max_features=sqrt
, min_samples_leaf=5, min_samples_split=8, n_estimators=2
```

```
[CV] bootstrap=True, criterion=mse, max_depth=6, max_features=sqrt
, min_samples_leaf=5, min_samples_split=8, n_estimators=2
[CV] bootstrap=True, criterion=mse, max_depth=6, max_features=sqrt
, min_samples_leaf=5, min_samples_split=8, n_estimators=2
[CV]  bootstrap=True, criterion=mse, max_depth=6, max_features=sqr
t, min_samples_leaf=4, min_samples_split=12, n_estimators=8, total
=   1.4s
[CV]  bootstrap=True, criterion=mse, max_depth=6, max_features=sqr
t, min_samples_leaf=4, min_samples_split=12, n_estimators=8, total
=   1.3s
[CV] bootstrap=True, criterion=mse, max_depth=6, max_features=sqrt
, min_samples_leaf=5, min_samples_split=8, n_estimators=2
[CV] bootstrap=True, criterion=mse, max_depth=6, max_features=sqrt
, min_samples_leaf=5, min_samples_split=8, n_estimators=2
[CV] bootstrap=True, criterion=mse, max_depth=6, max_features=sqrt
, min_samples_leaf=5, min_samples_split=8, n_estimators=3
[CV]  bootstrap=True, criterion=mse, max_depth=6, max_features=sqr
t, min_samples_leaf=4, min_samples_split=12, n_estimators=9, total
=   1.4s
[CV]  bootstrap=True, criterion=mse, max_depth=6, max_features=sqr
t, min_samples_leaf=5, min_samples_split=8, n_estimators=2, total=
0.5s
[CV]  bootstrap=True, criterion=mse, max_depth=6, max_features=sqr
t, min_samples_leaf=5, min_samples_split=8, n_estimators=2, total=
0.4s
[CV] bootstrap=True, criterion=mse, max_depth=6, max_features=sqrt
, min_samples_leaf=5, min_samples_split=8, n_estimators=3
[CV]  bootstrap=True, criterion=mse, max_depth=6, max_features=sqr
t, min_samples_leaf=4, min_samples_split=12, n_estimators=9, total
=   1.5s
[CV]  bootstrap=True, criterion=mse, max_depth=6, max_features=sqr
t, min_samples_leaf=5, min_samples_split=8, n_estimators=2, total=
0.4s
[CV] bootstrap=True, criterion=mse, max_depth=6, max_features=sqrt
, min_samples_leaf=5, min_samples_split=8, n_estimators=3
[CV]  bootstrap=True, criterion=mse, max_depth=6, max_features=sqr
t, min_samples_leaf=5, min_samples_split=8, n_estimators=2, total=
0.4s
[CV]  bootstrap=True, criterion=mse, max_depth=6, max_features=sqr
t, min_samples_leaf=4, min_samples_split=12, n_estimators=9, total
=   1.3s
[CV] bootstrap=True, criterion=mse, max_depth=6, max_features=sqrt
, min_samples_leaf=5, min_samples_split=8, n_estimators=3
[CV]  bootstrap=True, criterion=mse, max_depth=6, max_features=sqr
t, min_samples_leaf=5, min_samples_split=8, n_estimators=2, total=
0.4s
[CV]  bootstrap=True, criterion=mse, max_depth=6, max_features=sqr
t, min_samples_leaf=4, min_samples_split=12, n_estimators=9, total
=   1.6s
[CV] bootstrap=True, criterion=mse, max_depth=6, max_features=sqrt
, min_samples_leaf=5, min_samples_split=8, n_estimators=3
[CV]  bootstrap=True, criterion=mse, max_depth=6, max_features=sqr
t, min_samples_leaf=4, min_samples_split=12, n_estimators=9, total
=   1.5s
```

```
[CV] bootstrap=True, criterion=mse, max_depth=6, max_features=sqrt
, min_samples_leaf=5, min_samples_split=8, n_estimators=4
[CV] bootstrap=True, criterion=mse, max_depth=6, max_features=sqrt
, min_samples_leaf=5, min_samples_split=8, n_estimators=4
[CV]  bootstrap=True, criterion=mse, max_depth=6, max_features=sqr
t, min_samples_leaf=5, min_samples_split=8, n_estimators=3, total=
0.6s
[CV]  bootstrap=True, criterion=mse, max_depth=6, max_features=sqr
t, min_samples_leaf=5, min_samples_split=8, n_estimators=3, total=
0.5s
[CV] bootstrap=True, criterion=mse, max_depth=6, max_features=sqrt
, min_samples_leaf=5, min_samples_split=8, n_estimators=4
[CV]  bootstrap=True, criterion=mse, max_depth=6, max_features=sqr
t, min_samples_leaf=5, min_samples_split=8, n_estimators=3, total=
0.5s
[CV] bootstrap=True, criterion=mse, max_depth=6, max_features=sqrt
, min_samples_leaf=5, min_samples_split=8, n_estimators=4
[CV]  bootstrap=True, criterion=mse, max_depth=6, max_features=sqr
t, min_samples_leaf=4, min_samples_split=12, n_estimators=10, tota
l=   1.7s
[CV]  bootstrap=True, criterion=mse, max_depth=6, max_features=sqr
t, min_samples_leaf=4, min_samples_split=12, n_estimators=10, tota
l=   1.7s
[CV] bootstrap=True, criterion=mse, max_depth=6, max_features=sqrt
, min_samples_leaf=5, min_samples_split=8, n_estimators=4
[CV]  bootstrap=True, criterion=mse, max_depth=6, max_features=sqr
t, min_samples_leaf=4, min_samples_split=12, n_estimators=10, tota
l=   1.6s
[CV]  bootstrap=True, criterion=mse, max_depth=6, max_features=sqr
t, min_samples_leaf=5, min_samples_split=8, n_estimators=3, total=
0.5s
[CV]  bootstrap=True, criterion=mse, max_depth=6, max_features=sqr
t, min_samples_leaf=5, min_samples_split=8, n_estimators=3, total=
0.6s
[CV]  bootstrap=True, criterion=mse, max_depth=6, max_features=sqr
t, min_samples_leaf=4, min_samples_split=12, n_estimators=10, tota
l=   1.5s
[CV] bootstrap=True, criterion=mse, max_depth=6, max_features=sqrt
, min_samples_leaf=5, min_samples_split=8, n_estimators=5
[CV] bootstrap=True, criterion=mse, max_depth=6, max_features=sqrt
, min_samples_leaf=5, min_samples_split=8, n_estimators=5
[CV]  bootstrap=True, criterion=mse, max_depth=6, max_features=sqr
t, min_samples_leaf=4, min_samples_split=12, n_estimators=10, tota
l=   1.6s
[CV]  bootstrap=True, criterion=mse, max_depth=6, max_features=sqr
t, min_samples_leaf=5, min_samples_split=8, n_estimators=4, total=
0.6s
[CV] bootstrap=True, criterion=mse, max_depth=6, max_features=sqrt
, min_samples_leaf=5, min_samples_split=8, n_estimators=5
[CV] bootstrap=True, criterion=mse, max_depth=6, max_features=sqrt
, min_samples_leaf=5, min_samples_split=8, n_estimators=5
[CV]  bootstrap=True, criterion=mse, max_depth=6, max_features=sqr
t, min_samples_leaf=5, min_samples_split=8, n_estimators=4, total=
0.7s
```

```
[CV]  bootstrap=True, criterion=mse, max_depth=6, max_features=sqr
t, min_samples_leaf=5, min_samples_split=8, n_estimators=4, total=
0.7s
[CV] bootstrap=True, criterion=mse, max_depth=6, max_features=sqrt
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t, min_samples_leaf=5, min_samples_split=8, n_estimators=4, total=
0.7s
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t, min_samples_leaf=5, min_samples_split=8, n_estimators=4, total=
0.7s
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0.7s
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0.8s
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t, min_samples_leaf=5, min_samples_split=8, n_estimators=5, total=
0.8s
[CV] bootstrap=True, criterion=mse, max_depth=6, max_features=sqrt
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[CV]  bootstrap=True, criterion=mse, max_depth=6, max_features=sqr
t, min_samples_leaf=5, min_samples_split=8, n_estimators=5, total=
0.8s
[CV] bootstrap=True, criterion=mse, max_depth=6, max_features=sqrt
, min_samples_leaf=5, min_samples_split=8, n_estimators=7
[CV] bootstrap=True, criterion=mse, max_depth=6, max_features=sqrt
, min_samples_leaf=5, min_samples_split=8, n_estimators=7
[CV]  bootstrap=True, criterion=mse, max_depth=6, max_features=sqr
t, min_samples_leaf=5, min_samples_split=8, n_estimators=5, total=
0.9s
[CV] bootstrap=True, criterion=mse, max_depth=6, max_features=sqrt
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[CV] bootstrap=True, criterion=mse, max_depth=6, max_features=sqrt
, min_samples_leaf=5, min_samples_split=8, n_estimators=7
[CV] bootstrap=True, criterion=mse, max_depth=6, max_features=sqrt
, min_samples_leaf=5, min_samples_split=8, n_estimators=8
[CV]  bootstrap=True, criterion=mse, max_depth=6, max_features=sqr
t, min_samples_leaf=5, min_samples_split=8, n_estimators=6, total=
0.9s
[CV] bootstrap=True, criterion=mse, max_depth=6, max_features=sqrt
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[CV]  bootstrap=True, criterion=mse, max_depth=6, max_features=sqr
```

```
t, min_samples_leaf=5, min_samples_split=8, n_estimators=6, total=
1.1s
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t, min_samples_leaf=5, min_samples_split=8, n_estimators=6, total=
1.0s
[CV]  bootstrap=True, criterion=mse, max_depth=6, max_features=sqr
t, min_samples_leaf=5, min_samples_split=8, n_estimators=6, total=
0.9s
[CV] bootstrap=True, criterion=mse, max_depth=6, max_features=sqrt
, min_samples_leaf=5, min_samples_split=8, n_estimators=8
[CV]  bootstrap=True, criterion=mse, max_depth=6, max_features=sqr
t, min_samples_leaf=5, min_samples_split=8, n_estimators=6, total=
0.9s
[CV] bootstrap=True, criterion=mse, max_depth=6, max_features=sqrt
, min_samples_leaf=5, min_samples_split=8, n_estimators=8
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, min_samples_leaf=5, min_samples_split=8, n_estimators=9
[CV] bootstrap=True, criterion=mse, max_depth=6, max_features=sqrt
, min_samples_leaf=5, min_samples_split=8, n_estimators=9
[CV]  bootstrap=True, criterion=mse, max_depth=6, max_features=sqr
t, min_samples_leaf=5, min_samples_split=8, n_estimators=7, total=
1.1s
[CV] bootstrap=True, criterion=mse, max_depth=6, max_features=sqrt
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t, min_samples_leaf=5, min_samples_split=8, n_estimators=7, total=
1.1s
[CV] bootstrap=True, criterion=mse, max_depth=6, max_features=sqrt
, min_samples_leaf=5, min_samples_split=8, n_estimators=9
[CV] bootstrap=True, criterion=mse, max_depth=6, max_features=sqrt
, min_samples_leaf=5, min_samples_split=8, n_estimators=9
[CV]  bootstrap=True, criterion=mse, max_depth=6, max_features=sqr
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1.2s
[CV]  bootstrap=True, criterion=mse, max_depth=6, max_features=sqr
t, min_samples_leaf=5, min_samples_split=8, n_estimators=7, total=
1.1s
[CV] bootstrap=True, criterion=mse, max_depth=6, max_features=sqrt
, min_samples_leaf=5, min_samples_split=8, n_estimators=10
[CV]  bootstrap=True, criterion=mse, max_depth=6, max_features=sqr
t, min_samples_leaf=5, min_samples_split=8, n_estimators=7, total=
1.1s
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, min_samples_leaf=5, min_samples_split=8, n_estimators=10
[CV] bootstrap=True, criterion=mse, max_depth=6, max_features=sqrt
, min_samples_leaf=5, min_samples_split=8, n_estimators=10
[CV] bootstrap=True, criterion=mse, max_depth=6, max_features=sqrt
, min_samples_leaf=5, min_samples_split=8, n_estimators=10
[CV]  bootstrap=True, criterion=mse, max_depth=6, max_features=sqr
t, min_samples_leaf=5, min_samples_split=8, n_estimators=8, total=
1.2s
[CV] bootstrap=True, criterion=mse, max_depth=6, max_features=sqrt
```

```
, min_samples_leaf=5, min_samples_split=8, n_estimators=10
[CV]  bootstrap=True, criterion=mse, max_depth=6, max_features=sqr
t, min_samples_leaf=5, min_samples_split=8, n_estimators=8, total=
1.3s
[CV] bootstrap=True, criterion=mse, max_depth=6, max_features=sqrt
, min_samples_leaf=5, min_samples_split=10, n_estimators=2
[CV]  bootstrap=True, criterion=mse, max_depth=6, max_features=sqr
t, min_samples_leaf=5, min_samples_split=8, n_estimators=8, total=
1.3s
[CV] bootstrap=True, criterion=mse, max_depth=6, max_features=sqrt
, min_samples_leaf=5, min_samples_split=10, n_estimators=2
[CV]  bootstrap=True, criterion=mse, max_depth=6, max_features=sqr
t, min_samples_leaf=5, min_samples_split=8, n_estimators=8, total=
1.5s
[CV] bootstrap=True, criterion=mse, max_depth=6, max_features=sqrt
, min_samples_leaf=5, min_samples_split=10, n_estimators=2
[CV]  bootstrap=True, criterion=mse, max_depth=6, max_features=sqr
t, min_samples_leaf=5, min_samples_split=8, n_estimators=8, total=
1.4s
[CV] bootstrap=True, criterion=mse, max_depth=6, max_features=sqrt
, min_samples_leaf=5, min_samples_split=10, n_estimators=2
[CV] bootstrap=True, criterion=mse, max_depth=6, max_features=sqrt
, min_samples_leaf=5, min_samples_split=10, n_estimators=2
[CV]  bootstrap=True, criterion=mse, max_depth=6, max_features=sqr
t, min_samples_leaf=5, min_samples_split=8, n_estimators=9, total=
1.4s
[CV]  bootstrap=True, criterion=mse, max_depth=6, max_features=sqr
t, min_samples_leaf=5, min_samples_split=10, n_estimators=2, total
=   0.4s
[CV]  bootstrap=True, criterion=mse, max_depth=6, max_features=sqr
t, min_samples_leaf=5, min_samples_split=10, n_estimators=2, total
=   0.4s
[CV] bootstrap=True, criterion=mse, max_depth=6, max_features=sqrt
, min_samples_leaf=5, min_samples_split=10, n_estimators=3
[CV]  bootstrap=True, criterion=mse, max_depth=6, max_features=sqr
t, min_samples_leaf=5, min_samples_split=8, n_estimators=9, total=
1.5s
[CV]  bootstrap=True, criterion=mse, max_depth=6, max_features=sqr
t, min_samples_leaf=5, min_samples_split=10, n_estimators=2, total
=   0.4s
[CV] bootstrap=True, criterion=mse, max_depth=6, max_features=sqrt
, min_samples_leaf=5, min_samples_split=10, n_estimators=3
[CV]  bootstrap=True, criterion=mse, max_depth=6, max_features=sqr
t, min_samples_leaf=5, min_samples_split=8, n_estimators=9, total=
1.5s
[CV]  bootstrap=True, criterion=mse, max_depth=6, max_features=sqr
t, min_samples_leaf=5, min_samples_split=10, n_estimators=2, total
=   0.4s
[CV] bootstrap=True, criterion=mse, max_depth=6, max_features=sqrt
, min_samples_leaf=5, min_samples_split=10, n_estimators=3
[CV]  bootstrap=True, criterion=mse, max_depth=6, max_features=sqr
t, min_samples_leaf=5, min_samples_split=8, n_estimators=9, total=
1.5s
[CV] bootstrap=True, criterion=mse, max_depth=6, max_features=sqrt
```

, min_samples_leaf=5, min_samples_split=10, n_estimators=3
[CV] bootstrap=True, criterion=mse, max_depth=6, max_features=sqr
t, min_samples_leaf=5, min_samples_split=10, n_estimators=2, total
=   0.4s
[CV] bootstrap=True, criterion=mse, max_depth=6, max_features=sqr
t, min_samples_leaf=5, min_samples_split=8, n_estimators=9, total=
1.5s
[CV] bootstrap=True, criterion=mse, max_depth=6, max_features=sqrt
, min_samples_leaf=5, min_samples_split=10, n_estimators=3
[CV] bootstrap=True, criterion=mse, max_depth=6, max_features=sqrt
, min_samples_leaf=5, min_samples_split=10, n_estimators=4
[CV] bootstrap=True, criterion=mse, max_depth=6, max_features=sqr
t, min_samples_leaf=5, min_samples_split=10, n_estimators=3, total
=   0.5s
[CV] bootstrap=True, criterion=mse, max_depth=6, max_features=sqrt
, min_samples_leaf=5, min_samples_split=10, n_estimators=4
[CV] bootstrap=True, criterion=mse, max_depth=6, max_features=sqr
t, min_samples_leaf=5, min_samples_split=8, n_estimators=10, total
=   1.7s
[CV] bootstrap=True, criterion=mse, max_depth=6, max_features=sqr
t, min_samples_leaf=5, min_samples_split=8, n_estimators=10, total
=   1.6s
[CV] bootstrap=True, criterion=mse, max_depth=6, max_features=sqr
t, min_samples_leaf=5, min_samples_split=8, n_estimators=10, total
=   1.6s
[CV] bootstrap=True, criterion=mse, max_depth=6, max_features=sqr
t, min_samples_leaf=5, min_samples_split=10, n_estimators=3, total
=   0.6s
[CV] bootstrap=True, criterion=mse, max_depth=6, max_features=sqrt
, min_samples_leaf=5, min_samples_split=10, n_estimators=4
[CV] bootstrap=True, criterion=mse, max_depth=6, max_features=sqr
t, min_samples_leaf=5, min_samples_split=10, n_estimators=3, total
=   0.6s
[CV] bootstrap=True, criterion=mse, max_depth=6, max_features=sqrt
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[CV] bootstrap=True, criterion=mse, max_depth=6, max_features=sqr
t, min_samples_leaf=5, min_samples_split=10, n_estimators=3, total
=   0.5s
[CV] bootstrap=True, criterion=mse, max_depth=6, max_features=sqr
t, min_samples_leaf=5, min_samples_split=8, n_estimators=10, total
=   1.6s
[CV] bootstrap=True, criterion=mse, max_depth=6, max_features=sqrt
, min_samples_leaf=5, min_samples_split=10, n_estimators=4
[CV] bootstrap=True, criterion=mse, max_depth=6, max_features=sqr
t, min_samples_leaf=5, min_samples_split=10, n_estimators=3, total
=   0.5s
[CV] bootstrap=True, criterion=mse, max_depth=6, max_features=sqrt
, min_samples_leaf=5, min_samples_split=10, n_estimators=5
[CV] bootstrap=True, criterion=mse, max_depth=6, max_features=sqrt
, min_samples_leaf=5, min_samples_split=10, n_estimators=5
[CV] bootstrap=True, criterion=mse, max_depth=6, max_features=sqr
t, min_samples_leaf=5, min_samples_split=8, n_estimators=10, total
=   1.7s
[CV] bootstrap=True, criterion=mse, max_depth=6, max_features=sqrt

```
, min_samples_leaf=5, min_samples_split=10, n_estimators=5
[CV]  bootstrap=True, criterion=mse, max_depth=6, max_features=sqr
t, min_samples_leaf=5, min_samples_split=10, n_estimators=4, total
=   0.7s
[CV]  bootstrap=True, criterion=mse, max_depth=6, max_features=sqr
t, min_samples_leaf=5, min_samples_split=10, n_estimators=4, total
=   0.6s
[CV] bootstrap=True, criterion=mse, max_depth=6, max_features=sqrt
, min_samples_leaf=5, min_samples_split=10, n_estimators=5
[CV] bootstrap=True, criterion=mse, max_depth=6, max_features=sqrt
, min_samples_leaf=5, min_samples_split=10, n_estimators=5
[CV]  bootstrap=True, criterion=mse, max_depth=6, max_features=sqr
t, min_samples_leaf=5, min_samples_split=10, n_estimators=4, total
=   0.7s
[CV] bootstrap=True, criterion=mse, max_depth=6, max_features=sqrt
, min_samples_leaf=5, min_samples_split=10, n_estimators=6
[CV]  bootstrap=True, criterion=mse, max_depth=6, max_features=sqr
t, min_samples_leaf=5, min_samples_split=10, n_estimators=4, total
=   0.6s
[CV] bootstrap=True, criterion=mse, max_depth=6, max_features=sqrt
, min_samples_leaf=5, min_samples_split=10, n_estimators=6
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t, min_samples_leaf=5, min_samples_split=10, n_estimators=4, total
=   0.6s
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, min_samples_leaf=5, min_samples_split=10, n_estimators=6
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, min_samples_leaf=5, min_samples_split=10, n_estimators=6
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[CV]  bootstrap=True, criterion=mse, max_depth=6, max_features=sqr
t, min_samples_leaf=5, min_samples_split=10, n_estimators=5, total
=   0.9s
[CV]  bootstrap=True, criterion=mse, max_depth=6, max_features=sqr
t, min_samples_leaf=5, min_samples_split=10, n_estimators=5, total
=   0.8s
[CV] bootstrap=True, criterion=mse, max_depth=6, max_features=sqrt
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[CV]  bootstrap=True, criterion=mse, max_depth=6, max_features=sqr
t, min_samples_leaf=5, min_samples_split=10, n_estimators=5, total
=   0.8s
[CV] bootstrap=True, criterion=mse, max_depth=6, max_features=sqrt
, min_samples_leaf=5, min_samples_split=10, n_estimators=7
[CV]  bootstrap=True, criterion=mse, max_depth=6, max_features=sqr
t, min_samples_leaf=5, min_samples_split=10, n_estimators=5, total
=   0.8s
[CV] bootstrap=True, criterion=mse, max_depth=6, max_features=sqrt
, min_samples_leaf=5, min_samples_split=10, n_estimators=7
[CV]  bootstrap=True, criterion=mse, max_depth=6, max_features=sqr
t, min_samples_leaf=5, min_samples_split=10, n_estimators=5, total
=   0.8s
[CV] bootstrap=True, criterion=mse, max_depth=6, max_features=sqrt
, min_samples_leaf=5, min_samples_split=10, n_estimators=7
[CV] bootstrap=True, criterion=mse, max_depth=6, max_features=sqrt
```

```
, min_samples_leaf=5, min_samples_split=10, n_estimators=7
[CV]  bootstrap=True, criterion=mse, max_depth=6, max_features=sqr
t, min_samples_leaf=5, min_samples_split=10, n_estimators=6, total
=   1.0s
[CV]  bootstrap=True, criterion=mse, max_depth=6, max_features=sqr
t, min_samples_leaf=5, min_samples_split=10, n_estimators=6, total
=   0.9s
[CV] bootstrap=True, criterion=mse, max_depth=6, max_features=sqrt
, min_samples_leaf=5, min_samples_split=10, n_estimators=8
[CV]  bootstrap=True, criterion=mse, max_depth=6, max_features=sqr
t, min_samples_leaf=5, min_samples_split=10, n_estimators=6, total
=   0.9s
[CV] bootstrap=True, criterion=mse, max_depth=6, max_features=sqrt
, min_samples_leaf=5, min_samples_split=10, n_estimators=8
[CV] bootstrap=True, criterion=mse, max_depth=6, max_features=sqrt
, min_samples_leaf=5, min_samples_split=10, n_estimators=8
[CV] bootstrap=True, criterion=mse, max_depth=6, max_features=sqrt
, min_samples_leaf=5, min_samples_split=10, n_estimators=8
[CV]  bootstrap=True, criterion=mse, max_depth=6, max_features=sqr
t, min_samples_leaf=5, min_samples_split=10, n_estimators=6, total
=   1.0s
[CV]  bootstrap=True, criterion=mse, max_depth=6, max_features=sqr
t, min_samples_leaf=5, min_samples_split=10, n_estimators=6, total
=   0.9s
[CV] bootstrap=True, criterion=mse, max_depth=6, max_features=sqrt
, min_samples_leaf=5, min_samples_split=10, n_estimators=8
[CV] bootstrap=True, criterion=mse, max_depth=6, max_features=sqrt
, min_samples_leaf=5, min_samples_split=10, n_estimators=9
[CV] bootstrap=True, criterion=mse, max_depth=6, max_features=sqrt
, min_samples_leaf=5, min_samples_split=10, n_estimators=9
[CV]  bootstrap=True, criterion=mse, max_depth=6, max_features=sqr
t, min_samples_leaf=5, min_samples_split=10, n_estimators=7, total
=   1.0s
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=   1.1s
[CV] bootstrap=True, criterion=mse, max_depth=6, max_features=sqrt
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t, min_samples_leaf=5, min_samples_split=10, n_estimators=7, total
=   1.2s
[CV] bootstrap=True, criterion=mse, max_depth=6, max_features=sqrt
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t, min_samples_leaf=5, min_samples_split=10, n_estimators=7, total
=   1.1s
[CV] bootstrap=True, criterion=mse, max_depth=6, max_features=sqrt
, min_samples_leaf=5, min_samples_split=10, n_estimators=10
[CV]  bootstrap=True, criterion=mse, max_depth=6, max_features=sqr
t, min_samples_leaf=5, min_samples_split=10, n_estimators=7, total
=   1.1s
[CV] bootstrap=True, criterion=mse, max_depth=6, max_features=sqrt
```

```
, min_samples_leaf=5, min_samples_split=10, n_estimators=10
[CV] bootstrap=True, criterion=mse, max_depth=6, max_features=sqrt
, min_samples_leaf=5, min_samples_split=10, n_estimators=10
[CV] bootstrap=True, criterion=mse, max_depth=6, max_features=sqrt
, min_samples_leaf=5, min_samples_split=10, n_estimators=10
[CV]  bootstrap=True, criterion=mse, max_depth=6, max_features=sqr
t, min_samples_leaf=5, min_samples_split=10, n_estimators=8, total
=    1.3s
[CV] bootstrap=True, criterion=mse, max_depth=6, max_features=sqrt
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[CV]  bootstrap=True, criterion=mse, max_depth=6, max_features=sqr
t, min_samples_leaf=5, min_samples_split=10, n_estimators=8, total
=    1.3s
[CV]  bootstrap=True, criterion=mse, max_depth=6, max_features=sqr
t, min_samples_leaf=5, min_samples_split=10, n_estimators=8, total
=    1.3s
[CV] bootstrap=True, criterion=mse, max_depth=6, max_features=sqrt
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, min_samples_leaf=5, min_samples_split=12, n_estimators=2
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t, min_samples_leaf=5, min_samples_split=10, n_estimators=8, total
=    1.3s
[CV] bootstrap=True, criterion=mse, max_depth=6, max_features=sqrt
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[CV] bootstrap=True, criterion=mse, max_depth=6, max_features=sqrt
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[CV]  bootstrap=True, criterion=mse, max_depth=6, max_features=sqr
t, min_samples_leaf=5, min_samples_split=10, n_estimators=8, total
=    1.4s
[CV] bootstrap=True, criterion=mse, max_depth=6, max_features=sqrt
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t, min_samples_leaf=5, min_samples_split=10, n_estimators=9, total
=    1.4s
[CV]  bootstrap=True, criterion=mse, max_depth=6, max_features=sqr
t, min_samples_leaf=5, min_samples_split=12, n_estimators=2, total
=    0.4s
[CV] bootstrap=True, criterion=mse, max_depth=6, max_features=sqrt
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t, min_samples_leaf=5, min_samples_split=12, n_estimators=2, total
=    0.5s
[CV]  bootstrap=True, criterion=mse, max_depth=6, max_features=sqr
t, min_samples_leaf=5, min_samples_split=10, n_estimators=9, total
=    1.5s
[CV] bootstrap=True, criterion=mse, max_depth=6, max_features=sqrt
, min_samples_leaf=5, min_samples_split=12, n_estimators=3
[CV]  bootstrap=True, criterion=mse, max_depth=6, max_features=sqr
t, min_samples_leaf=5, min_samples_split=12, n_estimators=2, total
=    0.4s
[CV]  bootstrap=True, criterion=mse, max_depth=6, max_features=sqr
t, min_samples_leaf=5, min_samples_split=12, n_estimators=2, total
=    0.4s
```

```
[CV] bootstrap=True, criterion=mse, max_depth=6, max_features=sqrt
, min_samples_leaf=5, min_samples_split=12, n_estimators=3
[CV]  bootstrap=True, criterion=mse, max_depth=6, max_features=sqr
t, min_samples_leaf=5, min_samples_split=10, n_estimators=9, total
=   1.5s
[CV]  bootstrap=True, criterion=mse, max_depth=6, max_features=sqr
t, min_samples_leaf=5, min_samples_split=12, n_estimators=2, total
=   0.4s
[CV] bootstrap=True, criterion=mse, max_depth=6, max_features=sqrt
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[CV] bootstrap=True, criterion=mse, max_depth=6, max_features=sqrt
, min_samples_leaf=5, min_samples_split=12, n_estimators=3
[CV]  bootstrap=True, criterion=mse, max_depth=6, max_features=sqr
t, min_samples_leaf=5, min_samples_split=10, n_estimators=9, total
=   1.6s
[CV]  bootstrap=True, criterion=mse, max_depth=6, max_features=sqr
t, min_samples_leaf=5, min_samples_split=10, n_estimators=9, total
=   1.5s
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[CV]  bootstrap=True, criterion=mse, max_depth=6, max_features=sqr
t, min_samples_leaf=5, min_samples_split=12, n_estimators=3, total
=   0.5s
[CV]  bootstrap=True, criterion=mse, max_depth=6, max_features=sqr
t, min_samples_leaf=5, min_samples_split=12, n_estimators=3, total
=   0.6s
[CV]  bootstrap=True, criterion=mse, max_depth=6, max_features=sqr
t, min_samples_leaf=5, min_samples_split=10, n_estimators=10, tota
l=   1.6s
[CV] bootstrap=True, criterion=mse, max_depth=6, max_features=sqrt
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=   0.5s
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t, min_samples_leaf=5, min_samples_split=10, n_estimators=10, tota
l=   1.5s
[CV] bootstrap=True, criterion=mse, max_depth=6, max_features=sqrt
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[CV]  bootstrap=True, criterion=mse, max_depth=6, max_features=sqr
t, min_samples_leaf=5, min_samples_split=12, n_estimators=3, total
=   0.5s
[CV]  bootstrap=True, criterion=mse, max_depth=6, max_features=sqr
t, min_samples_leaf=5, min_samples_split=10, n_estimators=10, tota
l=   1.6s
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t, min_samples_leaf=5, min_samples_split=10, n_estimators=10, tota
l=   1.8s
[CV] bootstrap=True, criterion=mse, max_depth=6, max_features=sqrt
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[CV]  bootstrap=True, criterion=mse, max_depth=6, max_features=sqr
t, min_samples_leaf=5, min_samples_split=12, n_estimators=3, total
```

```
=    0.6s
[CV] bootstrap=True, criterion=mse, max_depth=6, max_features=sqrt
, min_samples_leaf=5, min_samples_split=12, n_estimators=5
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l=    1.5s
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=    0.7s
[CV] bootstrap=True, criterion=mse, max_depth=6, max_features=sqrt
, min_samples_leaf=5, min_samples_split=12, n_estimators=6
[CV]  bootstrap=True, criterion=mse, max_depth=6, max_features=sqr
t, min_samples_leaf=5, min_samples_split=12, n_estimators=4, total
=    0.6s
[CV]  bootstrap=True, criterion=mse, max_depth=6, max_features=sqr
t, min_samples_leaf=5, min_samples_split=12, n_estimators=4, total
=    0.7s
[CV] bootstrap=True, criterion=mse, max_depth=6, max_features=sqrt
, min_samples_leaf=5, min_samples_split=12, n_estimators=6
[CV] bootstrap=True, criterion=mse, max_depth=6, max_features=sqrt
, min_samples_leaf=5, min_samples_split=12, n_estimators=6
[CV]  bootstrap=True, criterion=mse, max_depth=6, max_features=sqr
t, min_samples_leaf=5, min_samples_split=12, n_estimators=5, total
=    0.8s
[CV] bootstrap=True, criterion=mse, max_depth=6, max_features=sqrt
, min_samples_leaf=5, min_samples_split=12, n_estimators=6
[CV]  bootstrap=True, criterion=mse, max_depth=6, max_features=sqr
t, min_samples_leaf=5, min_samples_split=12, n_estimators=5, total
=    0.8s
[CV] bootstrap=True, criterion=mse, max_depth=6, max_features=sqrt
, min_samples_leaf=5, min_samples_split=12, n_estimators=6
[CV] bootstrap=True, criterion=mse, max_depth=6, max_features=sqrt
, min_samples_leaf=5, min_samples_split=12, n_estimators=7
[CV]  bootstrap=True, criterion=mse, max_depth=6, max_features=sqr
t, min_samples_leaf=5, min_samples_split=12, n_estimators=5, total
=    0.8s
[CV] bootstrap=True, criterion=mse, max_depth=6, max_features=sqrt
, min_samples_leaf=5, min_samples_split=12, n_estimators=7
[CV]  bootstrap=True, criterion=mse, max_depth=6, max_features=sqr
t, min_samples_leaf=5, min_samples_split=12, n_estimators=5, total
```

```
=    0.8s
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t, min_samples_leaf=5, min_samples_split=12, n_estimators=5, total
=    1.0s
[CV] bootstrap=True, criterion=mse, max_depth=6, max_features=sqrt
, min_samples_leaf=5, min_samples_split=12, n_estimators=7
[CV] bootstrap=True, criterion=mse, max_depth=6, max_features=sqrt
, min_samples_leaf=5, min_samples_split=12, n_estimators=7
[CV]  bootstrap=True, criterion=mse, max_depth=6, max_features=sqr
t, min_samples_leaf=5, min_samples_split=12, n_estimators=6, total
=    0.9s
[CV] bootstrap=True, criterion=mse, max_depth=6, max_features=sqrt
, min_samples_leaf=5, min_samples_split=12, n_estimators=7
[CV]  bootstrap=True, criterion=mse, max_depth=6, max_features=sqr
t, min_samples_leaf=5, min_samples_split=12, n_estimators=6, total
=    0.9s
[CV] bootstrap=True, criterion=mse, max_depth=6, max_features=sqrt
, min_samples_leaf=5, min_samples_split=12, n_estimators=8
[CV]  bootstrap=True, criterion=mse, max_depth=6, max_features=sqr
t, min_samples_leaf=5, min_samples_split=12, n_estimators=6, total
=    1.0s
[CV] bootstrap=True, criterion=mse, max_depth=6, max_features=sqrt
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, min_samples_leaf=5, min_samples_split=12, n_estimators=8
[CV]  bootstrap=True, criterion=mse, max_depth=6, max_features=sqr
t, min_samples_leaf=5, min_samples_split=12, n_estimators=6, total
=    1.0s
[CV]  bootstrap=True, criterion=mse, max_depth=6, max_features=sqr
t, min_samples_leaf=5, min_samples_split=12, n_estimators=6, total
=    1.0s
[CV] bootstrap=True, criterion=mse, max_depth=6, max_features=sqrt
, min_samples_leaf=5, min_samples_split=12, n_estimators=8
[CV]  bootstrap=True, criterion=mse, max_depth=6, max_features=sqr
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=    1.0s
[CV] bootstrap=True, criterion=mse, max_depth=6, max_features=sqrt
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, min_samples_leaf=5, min_samples_split=12, n_estimators=9
[CV]  bootstrap=True, criterion=mse, max_depth=6, max_features=sqr
t, min_samples_leaf=5, min_samples_split=12, n_estimators=7, total
=    1.2s
[CV] bootstrap=True, criterion=mse, max_depth=6, max_features=sqrt
, min_samples_leaf=5, min_samples_split=12, n_estimators=9
[CV] bootstrap=True, criterion=mse, max_depth=6, max_features=sqrt
, min_samples_leaf=5, min_samples_split=12, n_estimators=9
[CV]  bootstrap=True, criterion=mse, max_depth=6, max_features=sqr
t, min_samples_leaf=5, min_samples_split=12, n_estimators=7, total
=    1.1s
[CV]  bootstrap=True, criterion=mse, max_depth=6, max_features=sqr
t, min_samples_leaf=5, min_samples_split=12, n_estimators=7, total
=    1.1s
[CV] bootstrap=True, criterion=mse, max_depth=6, max_features=sqrt
```

```
, min_samples_leaf=5, min_samples_split=12, n_estimators=9
[CV]  bootstrap=True, criterion=mse, max_depth=6, max_features=sqr
t, min_samples_leaf=5, min_samples_split=12, n_estimators=7, total
=   1.1s
[CV] bootstrap=True, criterion=mse, max_depth=6, max_features=sqrt
, min_samples_leaf=5, min_samples_split=12, n_estimators=9
[CV] bootstrap=True, criterion=mse, max_depth=6, max_features=sqrt
, min_samples_leaf=5, min_samples_split=12, n_estimators=10
[CV]  bootstrap=True, criterion=mse, max_depth=6, max_features=sqr
t, min_samples_leaf=5, min_samples_split=12, n_estimators=8, total
=   1.2s
[CV] bootstrap=True, criterion=mse, max_depth=6, max_features=sqrt
, min_samples_leaf=5, min_samples_split=12, n_estimators=10
[CV]  bootstrap=True, criterion=mse, max_depth=6, max_features=sqr
t, min_samples_leaf=5, min_samples_split=12, n_estimators=8, total
=   1.2s
[CV] bootstrap=True, criterion=mse, max_depth=6, max_features=sqrt
, min_samples_leaf=5, min_samples_split=12, n_estimators=10
[CV] bootstrap=True, criterion=mse, max_depth=6, max_features=sqrt
, min_samples_leaf=5, min_samples_split=12, n_estimators=10
[CV] bootstrap=True, criterion=mse, max_depth=6, max_features=sqrt
, min_samples_leaf=5, min_samples_split=12, n_estimators=10
[CV] bootstrap=True, criterion=mse, max_depth=8, max_features=auto
, min_samples_leaf=3, min_samples_split=8, n_estimators=2
[CV]  bootstrap=True, criterion=mse, max_depth=6, max_features=sqr
t, min_samples_leaf=5, min_samples_split=12, n_estimators=8, total
=   1.2s
[CV]  bootstrap=True, criterion=mse, max_depth=6, max_features=sqr
t, min_samples_leaf=5, min_samples_split=12, n_estimators=8, total
=   1.4s
[CV]  bootstrap=True, criterion=mse, max_depth=6, max_features=sqr
t, min_samples_leaf=5, min_samples_split=12, n_estimators=8, total
=   1.2s
[CV] bootstrap=True, criterion=mse, max_depth=8, max_features=auto
, min_samples_leaf=3, min_samples_split=8, n_estimators=2
[CV] bootstrap=True, criterion=mse, max_depth=8, max_features=auto
, min_samples_leaf=3, min_samples_split=8, n_estimators=2
[CV] bootstrap=True, criterion=mse, max_depth=8, max_features=auto
, min_samples_leaf=3, min_samples_split=8, n_estimators=2
[CV] bootstrap=True, criterion=mse, max_depth=8, max_features=auto
, min_samples_leaf=3, min_samples_split=8, n_estimators=2
[CV] bootstrap=True, criterion=mse, max_depth=8, max_features=auto
, min_samples_leaf=3, min_samples_split=8, n_estimators=3
[CV]  bootstrap=True, criterion=mse, max_depth=6, max_features=sqr
t, min_samples_leaf=5, min_samples_split=12, n_estimators=9, total
=   1.4s
[CV]  bootstrap=True, criterion=mse, max_depth=6, max_features=sqr
t, min_samples_leaf=5, min_samples_split=12, n_estimators=9, total
=   1.5s
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[CV]  bootstrap=True, criterion=mse, max_depth=6, max_features=sqr
t, min_samples_leaf=5, min_samples_split=12, n_estimators=9, total
=   1.4s
```

```
[CV] bootstrap=True, criterion=mse, max_depth=8, max_features=auto
, min_samples_leaf=3, min_samples_split=8, n_estimators=3
[CV]  bootstrap=True, criterion=mse, max_depth=6, max_features=sqr
t, min_samples_leaf=5, min_samples_split=12, n_estimators=9, total
=   1.6s
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[CV]  bootstrap=True, criterion=mse, max_depth=6, max_features=sqr
t, min_samples_leaf=5, min_samples_split=12, n_estimators=9, total
=   1.4s
[CV] bootstrap=True, criterion=mse, max_depth=8, max_features=auto
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, min_samples_leaf=3, min_samples_split=8, n_estimators=4
[CV]  bootstrap=True, criterion=mse, max_depth=6, max_features=sqr
t, min_samples_leaf=5, min_samples_split=12, n_estimators=10, tota
l=   1.6s
[CV] bootstrap=True, criterion=mse, max_depth=8, max_features=auto
, min_samples_leaf=3, min_samples_split=8, n_estimators=4
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t, min_samples_leaf=5, min_samples_split=12, n_estimators=10, tota
l=   1.6s
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t, min_samples_leaf=5, min_samples_split=12, n_estimators=10, tota
l=   1.6s
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t, min_samples_leaf=5, min_samples_split=12, n_estimators=10, tota
l=   1.6s
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t, min_samples_leaf=5, min_samples_split=12, n_estimators=10, tota
l=   1.5s
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, min_samples_leaf=3, min_samples_split=8, n_estimators=5
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, min_samples_leaf=3, min_samples_split=8, n_estimators=6
[CV] bootstrap=True, criterion=mse, max_depth=8, max_features=auto
, min_samples_leaf=3, min_samples_split=8, n_estimators=6
[CV] bootstrap=True, criterion=mse, max_depth=8, max_features=auto
```

```
, min_samples_leaf=3, min_samples_split=8, n_estimators=6
[CV] bootstrap=True, criterion=mse, max_depth=8, max_features=auto
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, min_samples_leaf=3, min_samples_split=8, n_estimators=7
[CV] bootstrap=True, criterion=mse, max_depth=8, max_features=auto
, min_samples_leaf=3, min_samples_split=8, n_estimators=7
[CV]  bootstrap=True, criterion=mse, max_depth=8, max_features=aut
o, min_samples_leaf=3, min_samples_split=8, n_estimators=2, total=
3.0s
[CV] bootstrap=True, criterion=mse, max_depth=8, max_features=auto
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[CV]  bootstrap=True, criterion=mse, max_depth=8, max_features=aut
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3.0s
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3.1s
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[CV] bootstrap=True, criterion=mse, max_depth=8, max_features=auto
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[CV]  bootstrap=True, criterion=mse, max_depth=8, max_features=aut
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3.1s
[CV] bootstrap=True, criterion=mse, max_depth=8, max_features=auto
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3.3s
[CV] bootstrap=True, criterion=mse, max_depth=8, max_features=auto
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[CV] bootstrap=True, criterion=mse, max_depth=8, max_features=auto
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[CV] bootstrap=True, criterion=mse, max_depth=8, max_features=auto
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[CV] bootstrap=True, criterion=mse, max_depth=8, max_features=auto
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[CV] bootstrap=True, criterion=mse, max_depth=8, max_features=auto
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[CV] bootstrap=True, criterion=mse, max_depth=8, max_features=auto
, min_samples_leaf=3, min_samples_split=8, n_estimators=10
```

```
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[CV] bootstrap=True, criterion=mse, max_depth=8, max_features=auto
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o, min_samples_leaf=3, min_samples_split=8, n_estimators=3, total=
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5.4s
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[CV] bootstrap=True, criterion=mse, max_depth=8, max_features=auto
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=   4.9s
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o, min_samples_leaf=3, min_samples_split=8, n_estimators=4, total=
8.7s
[CV] bootstrap=True, criterion=mse, max_depth=8, max_features=aut
o, min_samples_leaf=3, min_samples_split=10, n_estimators=2, total
=   5.0s
[CV] bootstrap=True, criterion=mse, max_depth=8, max_features=auto
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o, min_samples_leaf=3, min_samples_split=8, n_estimators=4, total=
8.5s
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o, min_samples_leaf=3, min_samples_split=10, n_estimators=2, total
=   5.1s
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[CV] bootstrap=True, criterion=mse, max_depth=8, max_features=auto
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o, min_samples_leaf=3, min_samples_split=10, n_estimators=2, total
=   5.1s
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o, min_samples_leaf=3, min_samples_split=8, n_estimators=4, total=
8.7s
[CV] bootstrap=True, criterion=mse, max_depth=8, max_features=auto
, min_samples_leaf=3, min_samples_split=10, n_estimators=7
[CV] bootstrap=True, criterion=mse, max_depth=8, max_features=auto
, min_samples_leaf=3, min_samples_split=10, n_estimators=7
[CV] bootstrap=True, criterion=mse, max_depth=8, max_features=aut
o, min_samples_leaf=3, min_samples_split=10, n_estimators=2, total
=   5.8s
[CV] bootstrap=True, criterion=mse, max_depth=8, max_features=auto
, min_samples_leaf=3, min_samples_split=10, n_estimators=7
[CV] bootstrap=True, criterion=mse, max_depth=8, max_features=aut
o, min_samples_leaf=3, min_samples_split=8, n_estimators=4, total=

```
9.5s
[CV] bootstrap=True, criterion=mse, max_depth=8, max_features=auto
, min_samples_leaf=3, min_samples_split=10, n_estimators=8
[CV]  bootstrap=True, criterion=mse, max_depth=8, max_features=aut
o, min_samples_leaf=3, min_samples_split=8, n_estimators=5, total=
10.3s
[CV] bootstrap=True, criterion=mse, max_depth=8, max_features=auto
, min_samples_leaf=3, min_samples_split=10, n_estimators=8
[CV]  bootstrap=True, criterion=mse, max_depth=8, max_features=aut
o, min_samples_leaf=3, min_samples_split=8, n_estimators=5, total=
10.7s
[CV] bootstrap=True, criterion=mse, max_depth=8, max_features=auto
, min_samples_leaf=3, min_samples_split=10, n_estimators=8
[CV]  bootstrap=True, criterion=mse, max_depth=8, max_features=aut
o, min_samples_leaf=3, min_samples_split=10, n_estimators=3, total
=    7.5s
[CV] bootstrap=True, criterion=mse, max_depth=8, max_features=auto
, min_samples_leaf=3, min_samples_split=10, n_estimators=8
[CV]  bootstrap=True, criterion=mse, max_depth=8, max_features=aut
o, min_samples_leaf=3, min_samples_split=10, n_estimators=3, total
=    7.7s
[CV] bootstrap=True, criterion=mse, max_depth=8, max_features=auto
, min_samples_leaf=3, min_samples_split=10, n_estimators=8
[CV]  bootstrap=True, criterion=mse, max_depth=8, max_features=aut
o, min_samples_leaf=3, min_samples_split=10, n_estimators=3, total
=    7.7s
[CV] bootstrap=True, criterion=mse, max_depth=8, max_features=auto
, min_samples_leaf=3, min_samples_split=10, n_estimators=9
[CV]  bootstrap=True, criterion=mse, max_depth=8, max_features=aut
o, min_samples_leaf=3, min_samples_split=8, n_estimators=5, total=
11.8s
[CV] bootstrap=True, criterion=mse, max_depth=8, max_features=auto
, min_samples_leaf=3, min_samples_split=10, n_estimators=9
[CV]  bootstrap=True, criterion=mse, max_depth=8, max_features=aut
o, min_samples_leaf=3, min_samples_split=10, n_estimators=3, total
=    8.3s
[CV] bootstrap=True, criterion=mse, max_depth=8, max_features=auto
, min_samples_leaf=3, min_samples_split=10, n_estimators=9
[CV]  bootstrap=True, criterion=mse, max_depth=8, max_features=aut
o, min_samples_leaf=3, min_samples_split=8, n_estimators=5, total=
12.2s
[CV] bootstrap=True, criterion=mse, max_depth=8, max_features=auto
, min_samples_leaf=3, min_samples_split=10, n_estimators=9
[CV]  bootstrap=True, criterion=mse, max_depth=8, max_features=aut
o, min_samples_leaf=3, min_samples_split=8, n_estimators=5, total=
12.4s
[CV]  bootstrap=True, criterion=mse, max_depth=8, max_features=aut
o, min_samples_leaf=3, min_samples_split=10, n_estimators=3, total
=    9.1s
[CV] bootstrap=True, criterion=mse, max_depth=8, max_features=auto
, min_samples_leaf=3, min_samples_split=10, n_estimators=9
[CV] bootstrap=True, criterion=mse, max_depth=8, max_features=auto
, min_samples_leaf=3, min_samples_split=10, n_estimators=10
[CV]  bootstrap=True, criterion=mse, max_depth=8, max_features=aut
```

```
o, min_samples_leaf=3, min_samples_split=8, n_estimators=6, total=
13.5s
[CV] bootstrap=True, criterion=mse, max_depth=8, max_features=auto
, min_samples_leaf=3, min_samples_split=10, n_estimators=10
[CV]  bootstrap=True, criterion=mse, max_depth=8, max_features=aut
o, min_samples_leaf=3, min_samples_split=10, n_estimators=4, total
=  10.2s
[CV]  bootstrap=True, criterion=mse, max_depth=8, max_features=aut
o, min_samples_leaf=3, min_samples_split=10, n_estimators=4, total
=  10.1s
[CV] bootstrap=True, criterion=mse, max_depth=8, max_features=auto
, min_samples_leaf=3, min_samples_split=10, n_estimators=10
[CV] bootstrap=True, criterion=mse, max_depth=8, max_features=auto
, min_samples_leaf=3, min_samples_split=10, n_estimators=10
[CV]  bootstrap=True, criterion=mse, max_depth=8, max_features=aut
o, min_samples_leaf=3, min_samples_split=10, n_estimators=4, total
=  10.1s
[CV] bootstrap=True, criterion=mse, max_depth=8, max_features=auto
, min_samples_leaf=3, min_samples_split=10, n_estimators=10
[CV]  bootstrap=True, criterion=mse, max_depth=8, max_features=aut
o, min_samples_leaf=3, min_samples_split=10, n_estimators=4, total
=  10.5s
[CV] bootstrap=True, criterion=mse, max_depth=8, max_features=auto
, min_samples_leaf=3, min_samples_split=12, n_estimators=2
[CV]  bootstrap=True, criterion=mse, max_depth=8, max_features=aut
o, min_samples_leaf=3, min_samples_split=8, n_estimators=6, total=
14.2s
[CV] bootstrap=True, criterion=mse, max_depth=8, max_features=auto
, min_samples_leaf=3, min_samples_split=12, n_estimators=2
[CV]  bootstrap=True, criterion=mse, max_depth=8, max_features=aut
o, min_samples_leaf=3, min_samples_split=8, n_estimators=6, total=
15.5s
[CV] bootstrap=True, criterion=mse, max_depth=8, max_features=auto
, min_samples_leaf=3, min_samples_split=12, n_estimators=2
[CV]  bootstrap=True, criterion=mse, max_depth=8, max_features=aut
o, min_samples_leaf=3, min_samples_split=10, n_estimators=4, total
=  11.8s
[CV]  bootstrap=True, criterion=mse, max_depth=8, max_features=aut
o, min_samples_leaf=3, min_samples_split=8, n_estimators=6, total=
15.6s
[CV] bootstrap=True, criterion=mse, max_depth=8, max_features=auto
, min_samples_leaf=3, min_samples_split=12, n_estimators=2
[CV] bootstrap=True, criterion=mse, max_depth=8, max_features=auto
, min_samples_leaf=3, min_samples_split=12, n_estimators=2
[CV]  bootstrap=True, criterion=mse, max_depth=8, max_features=aut
o, min_samples_leaf=3, min_samples_split=8, n_estimators=6, total=
16.3s
[CV] bootstrap=True, criterion=mse, max_depth=8, max_features=auto
, min_samples_leaf=3, min_samples_split=12, n_estimators=3
[CV]  bootstrap=True, criterion=mse, max_depth=8, max_features=aut
o, min_samples_leaf=3, min_samples_split=8, n_estimators=7, total=
16.6s
[CV] bootstrap=True, criterion=mse, max_depth=8, max_features=auto
, min_samples_leaf=3, min_samples_split=12, n_estimators=3
```

```
[CV]  bootstrap=True, criterion=mse, max_depth=8, max_features=aut
o, min_samples_leaf=3, min_samples_split=10, n_estimators=5, total
=  12.9s
[CV]  bootstrap=True, criterion=mse, max_depth=8, max_features=aut
o, min_samples_leaf=3, min_samples_split=10, n_estimators=5, total
=  13.2s
[CV] bootstrap=True, criterion=mse, max_depth=8, max_features=auto
, min_samples_leaf=3, min_samples_split=12, n_estimators=3
[CV]  bootstrap=True, criterion=mse, max_depth=8, max_features=aut
o, min_samples_leaf=3, min_samples_split=8, n_estimators=7, total=
16.9s
[CV] bootstrap=True, criterion=mse, max_depth=8, max_features=auto
, min_samples_leaf=3, min_samples_split=12, n_estimators=3
[CV] bootstrap=True, criterion=mse, max_depth=8, max_features=auto
, min_samples_leaf=3, min_samples_split=12, n_estimators=3
[CV]  bootstrap=True, criterion=mse, max_depth=8, max_features=aut
o, min_samples_leaf=3, min_samples_split=10, n_estimators=5, total
=  13.7s
[CV]  bootstrap=True, criterion=mse, max_depth=8, max_features=aut
o, min_samples_leaf=3, min_samples_split=10, n_estimators=5, total
=  13.9s
[CV] bootstrap=True, criterion=mse, max_depth=8, max_features=auto
, min_samples_leaf=3, min_samples_split=12, n_estimators=4
[CV] bootstrap=True, criterion=mse, max_depth=8, max_features=auto
, min_samples_leaf=3, min_samples_split=12, n_estimators=4
[CV]  bootstrap=True, criterion=mse, max_depth=8, max_features=aut
o, min_samples_leaf=3, min_samples_split=10, n_estimators=5, total
=  14.4s
[CV] bootstrap=True, criterion=mse, max_depth=8, max_features=auto
, min_samples_leaf=3, min_samples_split=12, n_estimators=4
[CV]  bootstrap=True, criterion=mse, max_depth=8, max_features=aut
o, min_samples_leaf=3, min_samples_split=8, n_estimators=7, total=
18.0s
[CV] bootstrap=True, criterion=mse, max_depth=8, max_features=auto
, min_samples_leaf=3, min_samples_split=12, n_estimators=4
[CV]  bootstrap=True, criterion=mse, max_depth=8, max_features=aut
o, min_samples_leaf=3, min_samples_split=8, n_estimators=7, total=
18.9s
[CV] bootstrap=True, criterion=mse, max_depth=8, max_features=auto
, min_samples_leaf=3, min_samples_split=12, n_estimators=4
[CV]  bootstrap=True, criterion=mse, max_depth=8, max_features=aut
o, min_samples_leaf=3, min_samples_split=8, n_estimators=7, total=
18.8s
[CV] bootstrap=True, criterion=mse, max_depth=8, max_features=auto
, min_samples_leaf=3, min_samples_split=12, n_estimators=5
[CV]  bootstrap=True, criterion=mse, max_depth=8, max_features=aut
o, min_samples_leaf=3, min_samples_split=12, n_estimators=2, total
=   5.2s
[CV] bootstrap=True, criterion=mse, max_depth=8, max_features=auto
, min_samples_leaf=3, min_samples_split=12, n_estimators=5
[CV]  bootstrap=True, criterion=mse, max_depth=8, max_features=aut
o, min_samples_leaf=3, min_samples_split=10, n_estimators=6, total
=  15.9s
[CV] bootstrap=True, criterion=mse, max_depth=8, max_features=auto
```

```
, min_samples_leaf=3, min_samples_split=12, n_estimators=5
[CV]  bootstrap=True, criterion=mse, max_depth=8, max_features=aut
o, min_samples_leaf=3, min_samples_split=8, n_estimators=8, total=
19.7s
[CV]  bootstrap=True, criterion=mse, max_depth=8, max_features=aut
o, min_samples_leaf=3, min_samples_split=12, n_estimators=2, total
=   6.2s
[CV] bootstrap=True, criterion=mse, max_depth=8, max_features=auto
, min_samples_leaf=3, min_samples_split=12, n_estimators=5
[CV]  bootstrap=True, criterion=mse, max_depth=8, max_features=aut
o, min_samples_leaf=3, min_samples_split=8, n_estimators=8, total=
19.9s
[CV] bootstrap=True, criterion=mse, max_depth=8, max_features=auto
, min_samples_leaf=3, min_samples_split=12, n_estimators=5
[CV] bootstrap=True, criterion=mse, max_depth=8, max_features=auto
, min_samples_leaf=3, min_samples_split=12, n_estimators=6
[CV]  bootstrap=True, criterion=mse, max_depth=8, max_features=aut
o, min_samples_leaf=3, min_samples_split=8, n_estimators=8, total=
19.9s
[CV] bootstrap=True, criterion=mse, max_depth=8, max_features=auto
, min_samples_leaf=3, min_samples_split=12, n_estimators=6
[CV]  bootstrap=True, criterion=mse, max_depth=8, max_features=aut
o, min_samples_leaf=3, min_samples_split=12, n_estimators=2, total
=   5.8s
[CV] bootstrap=True, criterion=mse, max_depth=8, max_features=auto
, min_samples_leaf=3, min_samples_split=12, n_estimators=6
[CV]  bootstrap=True, criterion=mse, max_depth=8, max_features=aut
o, min_samples_leaf=3, min_samples_split=12, n_estimators=2, total
=   6.4s
[CV] bootstrap=True, criterion=mse, max_depth=8, max_features=auto
, min_samples_leaf=3, min_samples_split=12, n_estimators=6
[CV]  bootstrap=True, criterion=mse, max_depth=8, max_features=aut
o, min_samples_leaf=3, min_samples_split=12, n_estimators=2, total
=   6.3s
[CV] bootstrap=True, criterion=mse, max_depth=8, max_features=auto
, min_samples_leaf=3, min_samples_split=12, n_estimators=6
[CV]  bootstrap=True, criterion=mse, max_depth=8, max_features=aut
o, min_samples_leaf=3, min_samples_split=8, n_estimators=8, total=
21.7s
[CV]  bootstrap=True, criterion=mse, max_depth=8, max_features=aut
o, min_samples_leaf=3, min_samples_split=8, n_estimators=8, total=
21.4s
[CV] bootstrap=True, criterion=mse, max_depth=8, max_features=auto
, min_samples_leaf=3, min_samples_split=12, n_estimators=7
[CV] bootstrap=True, criterion=mse, max_depth=8, max_features=auto
, min_samples_leaf=3, min_samples_split=12, n_estimators=7
[CV]  bootstrap=True, criterion=mse, max_depth=8, max_features=aut
o, min_samples_leaf=3, min_samples_split=10, n_estimators=6, total
=  15.5s
[CV] bootstrap=True, criterion=mse, max_depth=8, max_features=auto
, min_samples_leaf=3, min_samples_split=12, n_estimators=7
[CV]  bootstrap=True, criterion=mse, max_depth=8, max_features=aut
o, min_samples_leaf=3, min_samples_split=10, n_estimators=6, total
=  15.7s
```

```
[CV] bootstrap=True, criterion=mse, max_depth=8, max_features=auto
, min_samples_leaf=3, min_samples_split=12, n_estimators=7
[CV]  bootstrap=True, criterion=mse, max_depth=8, max_features=aut
o, min_samples_leaf=3, min_samples_split=8, n_estimators=9, total=
22.7s
[CV] bootstrap=True, criterion=mse, max_depth=8, max_features=auto
, min_samples_leaf=3, min_samples_split=12, n_estimators=7
[CV]  bootstrap=True, criterion=mse, max_depth=8, max_features=aut
o, min_samples_leaf=3, min_samples_split=8, n_estimators=9, total=
22.6s
[CV] bootstrap=True, criterion=mse, max_depth=8, max_features=auto
, min_samples_leaf=3, min_samples_split=12, n_estimators=8
[CV]  bootstrap=True, criterion=mse, max_depth=8, max_features=aut
o, min_samples_leaf=3, min_samples_split=10, n_estimators=6, total
=  17.3s
[CV] bootstrap=True, criterion=mse, max_depth=8, max_features=auto
, min_samples_leaf=3, min_samples_split=12, n_estimators=8
[CV]  bootstrap=True, criterion=mse, max_depth=8, max_features=aut
o, min_samples_leaf=3, min_samples_split=8, n_estimators=9, total=
23.2s
[CV] bootstrap=True, criterion=mse, max_depth=8, max_features=auto
, min_samples_leaf=3, min_samples_split=12, n_estimators=8
[CV]  bootstrap=True, criterion=mse, max_depth=8, max_features=aut
o, min_samples_leaf=3, min_samples_split=12, n_estimators=3, total
=   8.2s
[CV]  bootstrap=True, criterion=mse, max_depth=8, max_features=aut
o, min_samples_leaf=3, min_samples_split=12, n_estimators=3, total
=   8.1s
[CV] bootstrap=True, criterion=mse, max_depth=8, max_features=auto
, min_samples_leaf=3, min_samples_split=12, n_estimators=8
[CV]  bootstrap=True, criterion=mse, max_depth=8, max_features=aut
o, min_samples_leaf=3, min_samples_split=12, n_estimators=3, total
=   7.9s
[CV] bootstrap=True, criterion=mse, max_depth=8, max_features=auto
, min_samples_leaf=3, min_samples_split=12, n_estimators=8
[CV]  bootstrap=True, criterion=mse, max_depth=8, max_features=aut
o, min_samples_leaf=3, min_samples_split=12, n_estimators=3, total
=   9.2s
[CV] bootstrap=True, criterion=mse, max_depth=8, max_features=auto
, min_samples_leaf=3, min_samples_split=12, n_estimators=9
[CV]  bootstrap=True, criterion=mse, max_depth=8, max_features=aut
o, min_samples_leaf=3, min_samples_split=10, n_estimators=6, total
=  18.2s
[CV] bootstrap=True, criterion=mse, max_depth=8, max_features=auto
, min_samples_leaf=3, min_samples_split=12, n_estimators=9
[CV]  bootstrap=True, criterion=mse, max_depth=8, max_features=aut
o, min_samples_leaf=3, min_samples_split=8, n_estimators=9, total=
24.6s
[CV] bootstrap=True, criterion=mse, max_depth=8, max_features=auto
, min_samples_leaf=3, min_samples_split=12, n_estimators=9
[CV]  bootstrap=True, criterion=mse, max_depth=8, max_features=aut
o, min_samples_leaf=3, min_samples_split=10, n_estimators=7, total
=  18.0s
[CV] bootstrap=True, criterion=mse, max_depth=8, max_features=auto
```

```
, min_samples_leaf=3, min_samples_split=12, n_estimators=9
[CV] bootstrap=True, criterion=mse, max_depth=8, max_features=auto
, min_samples_leaf=3, min_samples_split=12, n_estimators=9
[CV]  bootstrap=True, criterion=mse, max_depth=8, max_features=aut
o, min_samples_leaf=3, min_samples_split=12, n_estimators=3, total
=    8.9s
[CV] bootstrap=True, criterion=mse, max_depth=8, max_features=auto
, min_samples_leaf=3, min_samples_split=12, n_estimators=10
[CV]  bootstrap=True, criterion=mse, max_depth=8, max_features=aut
o, min_samples_leaf=3, min_samples_split=10, n_estimators=7, total
=   18.8s
[CV] bootstrap=True, criterion=mse, max_depth=8, max_features=auto
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[CV]  bootstrap=True, criterion=mse, max_depth=8, max_features=aut
o, min_samples_leaf=3, min_samples_split=10, n_estimators=7, total
=   18.7s
[CV] bootstrap=True, criterion=mse, max_depth=8, max_features=auto
, min_samples_leaf=3, min_samples_split=12, n_estimators=10
[CV]  bootstrap=True, criterion=mse, max_depth=8, max_features=aut
o, min_samples_leaf=3, min_samples_split=8, n_estimators=9, total=
25.3s
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, min_samples_leaf=3, min_samples_split=12, n_estimators=10
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o, min_samples_leaf=3, min_samples_split=8, n_estimators=10, total
=   26.1s
[CV] bootstrap=True, criterion=mse, max_depth=8, max_features=auto
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[CV]  bootstrap=True, criterion=mse, max_depth=8, max_features=aut
o, min_samples_leaf=3, min_samples_split=10, n_estimators=7, total
=   20.0s
[CV] bootstrap=True, criterion=mse, max_depth=8, max_features=auto
, min_samples_leaf=4, min_samples_split=8, n_estimators=2
[CV]  bootstrap=True, criterion=mse, max_depth=8, max_features=aut
o, min_samples_leaf=3, min_samples_split=10, n_estimators=7, total
=   20.2s
[CV] bootstrap=True, criterion=mse, max_depth=8, max_features=auto
, min_samples_leaf=4, min_samples_split=8, n_estimators=2
[CV]  bootstrap=True, criterion=mse, max_depth=8, max_features=aut
o, min_samples_leaf=3, min_samples_split=8, n_estimators=10, total
=   26.9s
[CV] bootstrap=True, criterion=mse, max_depth=8, max_features=auto
, min_samples_leaf=4, min_samples_split=8, n_estimators=2
[CV]  bootstrap=True, criterion=mse, max_depth=8, max_features=aut
o, min_samples_leaf=3, min_samples_split=12, n_estimators=4, total
=   10.8s
[CV] bootstrap=True, criterion=mse, max_depth=8, max_features=auto
, min_samples_leaf=4, min_samples_split=8, n_estimators=2
[CV]  bootstrap=True, criterion=mse, max_depth=8, max_features=aut
o, min_samples_leaf=3, min_samples_split=8, n_estimators=10, total
=   27.4s
[CV] bootstrap=True, criterion=mse, max_depth=8, max_features=auto
, min_samples_leaf=4, min_samples_split=8, n_estimators=2
[CV]  bootstrap=True, criterion=mse, max_depth=8, max_features=aut
```

```
o, min_samples_leaf=3, min_samples_split=12, n_estimators=4, total
=  11.3s
[CV] bootstrap=True, criterion=mse, max_depth=8, max_features=auto
, min_samples_leaf=4, min_samples_split=8, n_estimators=3
[CV]  bootstrap=True, criterion=mse, max_depth=8, max_features=aut
o, min_samples_leaf=3, min_samples_split=8, n_estimators=10, total
=  27.5s
[CV] bootstrap=True, criterion=mse, max_depth=8, max_features=auto
, min_samples_leaf=4, min_samples_split=8, n_estimators=3
[CV]  bootstrap=True, criterion=mse, max_depth=8, max_features=aut
o, min_samples_leaf=3, min_samples_split=12, n_estimators=4, total
=  11.6s
[CV] bootstrap=True, criterion=mse, max_depth=8, max_features=auto
, min_samples_leaf=4, min_samples_split=8, n_estimators=3
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o, min_samples_leaf=3, min_samples_split=8, n_estimators=10, total
=  28.3s
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o, min_samples_leaf=3, min_samples_split=10, n_estimators=8, total
=  20.5s
[CV]  bootstrap=True, criterion=mse, max_depth=8, max_features=aut
o, min_samples_leaf=3, min_samples_split=12, n_estimators=4, total
=  12.4s
[CV] bootstrap=True, criterion=mse, max_depth=8, max_features=auto
, min_samples_leaf=4, min_samples_split=8, n_estimators=3
[CV]  bootstrap=True, criterion=mse, max_depth=8, max_features=aut
o, min_samples_leaf=3, min_samples_split=10, n_estimators=8, total
=  22.5s
[CV]  bootstrap=True, criterion=mse, max_depth=8, max_features=aut
o, min_samples_leaf=3, min_samples_split=10, n_estimators=8, total
=  21.4s
[CV]  bootstrap=True, criterion=mse, max_depth=8, max_features=aut
o, min_samples_leaf=3, min_samples_split=10, n_estimators=8, total
=  20.9s
[CV] bootstrap=True, criterion=mse, max_depth=8, max_features=auto
, min_samples_leaf=4, min_samples_split=8, n_estimators=4
[CV] bootstrap=True, criterion=mse, max_depth=8, max_features=auto
, min_samples_leaf=4, min_samples_split=8, n_estimators=4
[CV] bootstrap=True, criterion=mse, max_depth=8, max_features=auto
, min_samples_leaf=4, min_samples_split=8, n_estimators=4
[CV]  bootstrap=True, criterion=mse, max_depth=8, max_features=aut
o, min_samples_leaf=3, min_samples_split=12, n_estimators=4, total
=  12.1s
[CV] bootstrap=True, criterion=mse, max_depth=8, max_features=auto
, min_samples_leaf=4, min_samples_split=8, n_estimators=4
[CV] bootstrap=True, criterion=mse, max_depth=8, max_features=auto
, min_samples_leaf=4, min_samples_split=8, n_estimators=4
[CV]  bootstrap=True, criterion=mse, max_depth=8, max_features=aut
o, min_samples_leaf=3, min_samples_split=10, n_estimators=8, total
=  21.1s
[CV] bootstrap=True, criterion=mse, max_depth=8, max_features=auto
, min_samples_leaf=4, min_samples_split=8, n_estimators=5
```

```
[CV]  bootstrap=True, criterion=mse, max_depth=8, max_features=aut
o, min_samples_leaf=3, min_samples_split=12, n_estimators=5, total
=  13.6s
[CV] bootstrap=True, criterion=mse, max_depth=8, max_features=auto
, min_samples_leaf=4, min_samples_split=8, n_estimators=5
[CV]  bootstrap=True, criterion=mse, max_depth=8, max_features=aut
o, min_samples_leaf=3, min_samples_split=12, n_estimators=5, total
=  13.4s
[CV] bootstrap=True, criterion=mse, max_depth=8, max_features=auto
, min_samples_leaf=4, min_samples_split=8, n_estimators=5
[CV]  bootstrap=True, criterion=mse, max_depth=8, max_features=aut
o, min_samples_leaf=4, min_samples_split=8, n_estimators=2, total=
5.7s
[CV] bootstrap=True, criterion=mse, max_depth=8, max_features=auto
, min_samples_leaf=4, min_samples_split=8, n_estimators=5
[CV]  bootstrap=True, criterion=mse, max_depth=8, max_features=aut
o, min_samples_leaf=3, min_samples_split=12, n_estimators=5, total
=  14.7s
[CV] bootstrap=True, criterion=mse, max_depth=8, max_features=auto
, min_samples_leaf=4, min_samples_split=8, n_estimators=5
[CV]  bootstrap=True, criterion=mse, max_depth=8, max_features=aut
o, min_samples_leaf=3, min_samples_split=12, n_estimators=5, total
=  13.8s
[CV] bootstrap=True, criterion=mse, max_depth=8, max_features=auto
, min_samples_leaf=4, min_samples_split=8, n_estimators=6
[CV]  bootstrap=True, criterion=mse, max_depth=8, max_features=aut
o, min_samples_leaf=4, min_samples_split=8, n_estimators=2, total=
5.7s
[CV] bootstrap=True, criterion=mse, max_depth=8, max_features=auto
, min_samples_leaf=4, min_samples_split=8, n_estimators=6
[CV]  bootstrap=True, criterion=mse, max_depth=8, max_features=aut
o, min_samples_leaf=3, min_samples_split=10, n_estimators=9, total
=  23.5s
[CV] bootstrap=True, criterion=mse, max_depth=8, max_features=auto
, min_samples_leaf=4, min_samples_split=8, n_estimators=6
[CV]  bootstrap=True, criterion=mse, max_depth=8, max_features=aut
o, min_samples_leaf=4, min_samples_split=8, n_estimators=2, total=
5.9s
[CV] bootstrap=True, criterion=mse, max_depth=8, max_features=auto
, min_samples_leaf=4, min_samples_split=8, n_estimators=6
[CV]  bootstrap=True, criterion=mse, max_depth=8, max_features=aut
o, min_samples_leaf=4, min_samples_split=8, n_estimators=2, total=
5.7s
[CV] bootstrap=True, criterion=mse, max_depth=8, max_features=auto
, min_samples_leaf=4, min_samples_split=8, n_estimators=6
[CV]  bootstrap=True, criterion=mse, max_depth=8, max_features=aut
o, min_samples_leaf=4, min_samples_split=8, n_estimators=2, total=
6.4s
[CV] bootstrap=True, criterion=mse, max_depth=8, max_features=auto
, min_samples_leaf=4, min_samples_split=8, n_estimators=7
[CV]  bootstrap=True, criterion=mse, max_depth=8, max_features=aut
o, min_samples_leaf=3, min_samples_split=12, n_estimators=5, total
=  15.2s
[CV] bootstrap=True, criterion=mse, max_depth=8, max_features=auto
```

```
, min_samples_leaf=4, min_samples_split=8, n_estimators=7
[CV]  bootstrap=True, criterion=mse, max_depth=8, max_features=aut
o, min_samples_leaf=3, min_samples_split=12, n_estimators=6, total
=  15.6s
[CV] bootstrap=True, criterion=mse, max_depth=8, max_features=auto
, min_samples_leaf=4, min_samples_split=8, n_estimators=7
[CV]  bootstrap=True, criterion=mse, max_depth=8, max_features=aut
o, min_samples_leaf=3, min_samples_split=12, n_estimators=6, total
=  16.1s
[CV]  bootstrap=True, criterion=mse, max_depth=8, max_features=aut
o, min_samples_leaf=3, min_samples_split=10, n_estimators=9, total
=  25.4s
[CV] bootstrap=True, criterion=mse, max_depth=8, max_features=auto
, min_samples_leaf=4, min_samples_split=8, n_estimators=7
[CV] bootstrap=True, criterion=mse, max_depth=8, max_features=auto
, min_samples_leaf=4, min_samples_split=8, n_estimators=7
[CV]  bootstrap=True, criterion=mse, max_depth=8, max_features=aut
o, min_samples_leaf=3, min_samples_split=10, n_estimators=9, total
=  25.9s
[CV] bootstrap=True, criterion=mse, max_depth=8, max_features=auto
, min_samples_leaf=4, min_samples_split=8, n_estimators=8
[CV]  bootstrap=True, criterion=mse, max_depth=8, max_features=aut
o, min_samples_leaf=4, min_samples_split=8, n_estimators=3, total=
7.9s
[CV] bootstrap=True, criterion=mse, max_depth=8, max_features=auto
, min_samples_leaf=4, min_samples_split=8, n_estimators=8
[CV]  bootstrap=True, criterion=mse, max_depth=8, max_features=aut
o, min_samples_leaf=4, min_samples_split=8, n_estimators=3, total=
8.6s
[CV] bootstrap=True, criterion=mse, max_depth=8, max_features=auto
, min_samples_leaf=4, min_samples_split=8, n_estimators=8
[CV]  bootstrap=True, criterion=mse, max_depth=8, max_features=aut
o, min_samples_leaf=3, min_samples_split=10, n_estimators=9, total
=  26.5s
[CV]  bootstrap=True, criterion=mse, max_depth=8, max_features=aut
o, min_samples_leaf=3, min_samples_split=12, n_estimators=6, total
=  16.5s
[CV] bootstrap=True, criterion=mse, max_depth=8, max_features=auto
, min_samples_leaf=4, min_samples_split=8, n_estimators=8
[CV]  bootstrap=True, criterion=mse, max_depth=8, max_features=aut
o, min_samples_leaf=4, min_samples_split=8, n_estimators=3, total=
9.0s
[CV] bootstrap=True, criterion=mse, max_depth=8, max_features=auto
, min_samples_leaf=4, min_samples_split=8, n_estimators=8
[CV]  bootstrap=True, criterion=mse, max_depth=8, max_features=aut
o, min_samples_leaf=3, min_samples_split=10, n_estimators=9, total
=  26.9s
[CV]  bootstrap=True, criterion=mse, max_depth=8, max_features=aut
o, min_samples_leaf=4, min_samples_split=8, n_estimators=3, total=
8.2s
[CV] bootstrap=True, criterion=mse, max_depth=8, max_features=auto
, min_samples_leaf=4, min_samples_split=8, n_estimators=9
[CV] bootstrap=True, criterion=mse, max_depth=8, max_features=auto
, min_samples_leaf=4, min_samples_split=8, n_estimators=9
```

```
[CV] bootstrap=True, criterion=mse, max_depth=8, max_features=auto
, min_samples_leaf=4, min_samples_split=8, n_estimators=9
[CV]  bootstrap=True, criterion=mse, max_depth=8, max_features=aut
o, min_samples_leaf=4, min_samples_split=8, n_estimators=3, total=
8.1s
[CV] bootstrap=True, criterion=mse, max_depth=8, max_features=auto
, min_samples_leaf=4, min_samples_split=8, n_estimators=9
[CV]  bootstrap=True, criterion=mse, max_depth=8, max_features=aut
o, min_samples_leaf=3, min_samples_split=12, n_estimators=6, total
=  17.3s
[CV] bootstrap=True, criterion=mse, max_depth=8, max_features=auto
, min_samples_leaf=4, min_samples_split=8, n_estimators=9
[CV]  bootstrap=True, criterion=mse, max_depth=8, max_features=aut
o, min_samples_leaf=3, min_samples_split=10, n_estimators=10, tota
l=  26.6s
[CV]  bootstrap=True, criterion=mse, max_depth=8, max_features=aut
o, min_samples_leaf=3, min_samples_split=10, n_estimators=10, tota
l=  26.4s
[CV] bootstrap=True, criterion=mse, max_depth=8, max_features=auto
, min_samples_leaf=4, min_samples_split=8, n_estimators=10
[CV] bootstrap=True, criterion=mse, max_depth=8, max_features=auto
, min_samples_leaf=4, min_samples_split=8, n_estimators=10
[CV]  bootstrap=True, criterion=mse, max_depth=8, max_features=aut
o, min_samples_leaf=3, min_samples_split=10, n_estimators=10, tota
l=  26.5s
[CV]  bootstrap=True, criterion=mse, max_depth=8, max_features=aut
o, min_samples_leaf=3, min_samples_split=10, n_estimators=10, tota
l=  26.4s
[CV] bootstrap=True, criterion=mse, max_depth=8, max_features=auto
, min_samples_leaf=4, min_samples_split=8, n_estimators=10
[CV] bootstrap=True, criterion=mse, max_depth=8, max_features=auto
, min_samples_leaf=4, min_samples_split=8, n_estimators=10
[CV]  bootstrap=True, criterion=mse, max_depth=8, max_features=aut
o, min_samples_leaf=3, min_samples_split=12, n_estimators=6, total
=  18.7s
[CV] bootstrap=True, criterion=mse, max_depth=8, max_features=auto
, min_samples_leaf=4, min_samples_split=8, n_estimators=10
[CV]  bootstrap=True, criterion=mse, max_depth=8, max_features=aut
o, min_samples_leaf=3, min_samples_split=12, n_estimators=7, total
=  18.4s
[CV] bootstrap=True, criterion=mse, max_depth=8, max_features=auto
, min_samples_leaf=4, min_samples_split=10, n_estimators=2
[CV]  bootstrap=True, criterion=mse, max_depth=8, max_features=aut
o, min_samples_leaf=3, min_samples_split=10, n_estimators=10, tota
l=  29.4s
[CV] bootstrap=True, criterion=mse, max_depth=8, max_features=auto
, min_samples_leaf=4, min_samples_split=10, n_estimators=2
[CV]  bootstrap=True, criterion=mse, max_depth=8, max_features=aut
o, min_samples_leaf=4, min_samples_split=8, n_estimators=4, total=
10.5s
[CV] bootstrap=True, criterion=mse, max_depth=8, max_features=auto
, min_samples_leaf=4, min_samples_split=10, n_estimators=2
[CV]  bootstrap=True, criterion=mse, max_depth=8, max_features=aut
o, min_samples_leaf=3, min_samples_split=12, n_estimators=7, total
```

```
=   19.4s
[CV] bootstrap=True, criterion=mse, max_depth=8, max_features=auto
, min_samples_leaf=4, min_samples_split=10, n_estimators=2
[CV]  bootstrap=True, criterion=mse, max_depth=8, max_features=aut
o, min_samples_leaf=3, min_samples_split=12, n_estimators=7, total
=   18.2s
[CV] bootstrap=True, criterion=mse, max_depth=8, max_features=auto
, min_samples_leaf=4, min_samples_split=10, n_estimators=2
[CV]  bootstrap=True, criterion=mse, max_depth=8, max_features=aut
o, min_samples_leaf=3, min_samples_split=12, n_estimators=7, total
=   18.9s
[CV] bootstrap=True, criterion=mse, max_depth=8, max_features=auto
, min_samples_leaf=4, min_samples_split=10, n_estimators=3
[CV]  bootstrap=True, criterion=mse, max_depth=8, max_features=aut
o, min_samples_leaf=3, min_samples_split=12, n_estimators=7, total
=   20.0s
[CV] bootstrap=True, criterion=mse, max_depth=8, max_features=auto
, min_samples_leaf=4, min_samples_split=10, n_estimators=3
[CV]  bootstrap=True, criterion=mse, max_depth=8, max_features=aut
o, min_samples_leaf=4, min_samples_split=8, n_estimators=4, total=
11.5s
[CV]  bootstrap=True, criterion=mse, max_depth=8, max_features=aut
o, min_samples_leaf=4, min_samples_split=8, n_estimators=4, total=
11.2s
[CV] bootstrap=True, criterion=mse, max_depth=8, max_features=auto
, min_samples_leaf=4, min_samples_split=10, n_estimators=3
[CV] bootstrap=True, criterion=mse, max_depth=8, max_features=auto
, min_samples_leaf=4, min_samples_split=10, n_estimators=3
[CV]  bootstrap=True, criterion=mse, max_depth=8, max_features=aut
o, min_samples_leaf=4, min_samples_split=8, n_estimators=4, total=
11.5s
[CV] bootstrap=True, criterion=mse, max_depth=8, max_features=auto
, min_samples_leaf=4, min_samples_split=10, n_estimators=3
[CV]  bootstrap=True, criterion=mse, max_depth=8, max_features=aut
o, min_samples_leaf=4, min_samples_split=8, n_estimators=4, total=
11.7s
[CV] bootstrap=True, criterion=mse, max_depth=8, max_features=auto
, min_samples_leaf=4, min_samples_split=10, n_estimators=4
[CV]  bootstrap=True, criterion=mse, max_depth=8, max_features=aut
o, min_samples_leaf=3, min_samples_split=12, n_estimators=8, total
=   21.2s
[CV] bootstrap=True, criterion=mse, max_depth=8, max_features=auto
, min_samples_leaf=4, min_samples_split=10, n_estimators=4
[CV]  bootstrap=True, criterion=mse, max_depth=8, max_features=aut
o, min_samples_leaf=4, min_samples_split=8, n_estimators=5, total=
13.4s
[CV] bootstrap=True, criterion=mse, max_depth=8, max_features=auto
, min_samples_leaf=4, min_samples_split=10, n_estimators=4
[CV]  bootstrap=True, criterion=mse, max_depth=8, max_features=aut
o, min_samples_leaf=3, min_samples_split=12, n_estimators=8, total
=   21.1s
[CV] bootstrap=True, criterion=mse, max_depth=8, max_features=auto
, min_samples_leaf=4, min_samples_split=10, n_estimators=4
[CV]  bootstrap=True, criterion=mse, max_depth=8, max_features=aut
```

```
o, min_samples_leaf=3, min_samples_split=12, n_estimators=8, total
=  21.7s
[CV] bootstrap=True, criterion=mse, max_depth=8, max_features=auto
, min_samples_leaf=4, min_samples_split=10, n_estimators=4
[CV]  bootstrap=True, criterion=mse, max_depth=8, max_features=aut
o, min_samples_leaf=3, min_samples_split=12, n_estimators=8, total
=  21.0s
[CV] bootstrap=True, criterion=mse, max_depth=8, max_features=auto
, min_samples_leaf=4, min_samples_split=10, n_estimators=5
[CV]  bootstrap=True, criterion=mse, max_depth=8, max_features=aut
o, min_samples_leaf=3, min_samples_split=12, n_estimators=8, total
=  21.1s
[CV] bootstrap=True, criterion=mse, max_depth=8, max_features=auto
, min_samples_leaf=4, min_samples_split=10, n_estimators=5
[CV]  bootstrap=True, criterion=mse, max_depth=8, max_features=aut
o, min_samples_leaf=4, min_samples_split=10, n_estimators=2, total
=   5.4s
[CV] bootstrap=True, criterion=mse, max_depth=8, max_features=auto
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[CV]  bootstrap=True, criterion=mse, max_depth=8, max_features=aut
o, min_samples_leaf=4, min_samples_split=8, n_estimators=5, total=
13.5s
[CV] bootstrap=True, criterion=mse, max_depth=8, max_features=auto
, min_samples_leaf=4, min_samples_split=10, n_estimators=5
[CV]  bootstrap=True, criterion=mse, max_depth=8, max_features=aut
o, min_samples_leaf=4, min_samples_split=10, n_estimators=2, total
=   5.2s
[CV] bootstrap=True, criterion=mse, max_depth=8, max_features=auto
, min_samples_leaf=4, min_samples_split=10, n_estimators=5
[CV]  bootstrap=True, criterion=mse, max_depth=8, max_features=aut
o, min_samples_leaf=4, min_samples_split=8, n_estimators=5, total=
13.6s
[CV]  bootstrap=True, criterion=mse, max_depth=8, max_features=aut
o, min_samples_leaf=4, min_samples_split=10, n_estimators=2, total
=   5.5s
[CV] bootstrap=True, criterion=mse, max_depth=8, max_features=auto
, min_samples_leaf=4, min_samples_split=10, n_estimators=6
[CV]  bootstrap=True, criterion=mse, max_depth=8, max_features=aut
o, min_samples_leaf=4, min_samples_split=10, n_estimators=2, total
=   5.4s
[CV] bootstrap=True, criterion=mse, max_depth=8, max_features=auto
, min_samples_leaf=4, min_samples_split=10, n_estimators=6
[CV] bootstrap=True, criterion=mse, max_depth=8, max_features=auto
, min_samples_leaf=4, min_samples_split=10, n_estimators=6
[CV]  bootstrap=True, criterion=mse, max_depth=8, max_features=aut
o, min_samples_leaf=4, min_samples_split=10, n_estimators=2, total
=   6.4s
[CV] bootstrap=True, criterion=mse, max_depth=8, max_features=auto
, min_samples_leaf=4, min_samples_split=10, n_estimators=6
[CV]  bootstrap=True, criterion=mse, max_depth=8, max_features=aut
o, min_samples_leaf=3, min_samples_split=12, n_estimators=9, total
=  24.1s
[CV] bootstrap=True, criterion=mse, max_depth=8, max_features=auto
, min_samples_leaf=4, min_samples_split=10, n_estimators=6
```

```
[CV]  bootstrap=True, criterion=mse, max_depth=8, max_features=aut
o, min_samples_leaf=4, min_samples_split=8, n_estimators=5, total=
15.4s
[CV] bootstrap=True, criterion=mse, max_depth=8, max_features=auto
, min_samples_leaf=4, min_samples_split=10, n_estimators=7
[CV]  bootstrap=True, criterion=mse, max_depth=8, max_features=aut
o, min_samples_leaf=3, min_samples_split=12, n_estimators=9, total
=  23.9s
[CV] bootstrap=True, criterion=mse, max_depth=8, max_features=auto
, min_samples_leaf=4, min_samples_split=10, n_estimators=7
[CV]  bootstrap=True, criterion=mse, max_depth=8, max_features=aut
o, min_samples_leaf=4, min_samples_split=10, n_estimators=3, total
=   7.8s
[CV] bootstrap=True, criterion=mse, max_depth=8, max_features=auto
, min_samples_leaf=4, min_samples_split=10, n_estimators=7
[CV]  bootstrap=True, criterion=mse, max_depth=8, max_features=aut
o, min_samples_leaf=4, min_samples_split=8, n_estimators=5, total=
16.3s
[CV] bootstrap=True, criterion=mse, max_depth=8, max_features=auto
, min_samples_leaf=4, min_samples_split=10, n_estimators=7
[CV]  bootstrap=True, criterion=mse, max_depth=8, max_features=aut
o, min_samples_leaf=4, min_samples_split=8, n_estimators=6, total=
16.2s
[CV] bootstrap=True, criterion=mse, max_depth=8, max_features=auto
, min_samples_leaf=4, min_samples_split=10, n_estimators=7
[CV]  bootstrap=True, criterion=mse, max_depth=8, max_features=aut
o, min_samples_leaf=3, min_samples_split=12, n_estimators=9, total
=  25.1s
[CV] bootstrap=True, criterion=mse, max_depth=8, max_features=auto
, min_samples_leaf=4, min_samples_split=10, n_estimators=8
[CV]  bootstrap=True, criterion=mse, max_depth=8, max_features=aut
o, min_samples_leaf=4, min_samples_split=8, n_estimators=6, total=
16.2s
[CV] bootstrap=True, criterion=mse, max_depth=8, max_features=auto
, min_samples_leaf=4, min_samples_split=10, n_estimators=8
[CV]  bootstrap=True, criterion=mse, max_depth=8, max_features=aut
o, min_samples_leaf=4, min_samples_split=10, n_estimators=3, total
=   8.3s
[CV] bootstrap=True, criterion=mse, max_depth=8, max_features=auto
, min_samples_leaf=4, min_samples_split=10, n_estimators=8
[CV]  bootstrap=True, criterion=mse, max_depth=8, max_features=aut
o, min_samples_leaf=4, min_samples_split=10, n_estimators=3, total
=   8.9s
[CV]  bootstrap=True, criterion=mse, max_depth=8, max_features=aut
o, min_samples_leaf=3, min_samples_split=12, n_estimators=9, total
=  25.5s
[CV] bootstrap=True, criterion=mse, max_depth=8, max_features=auto
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, min_samples_leaf=4, min_samples_split=10, n_estimators=8
[CV]  bootstrap=True, criterion=mse, max_depth=8, max_features=aut
o, min_samples_leaf=4, min_samples_split=8, n_estimators=6, total=
16.7s
[CV] bootstrap=True, criterion=mse, max_depth=8, max_features=auto
```

```
, min_samples_leaf=4, min_samples_split=10, n_estimators=9
[CV]  bootstrap=True, criterion=mse, max_depth=8, max_features=aut
o, min_samples_leaf=4, min_samples_split=10, n_estimators=3, total
=   9.2s
[CV]  bootstrap=True, criterion=mse, max_depth=8, max_features=aut
o, min_samples_leaf=4, min_samples_split=8, n_estimators=6, total=
17.3s
[CV] bootstrap=True, criterion=mse, max_depth=8, max_features=auto
, min_samples_leaf=4, min_samples_split=10, n_estimators=9
[CV] bootstrap=True, criterion=mse, max_depth=8, max_features=auto
, min_samples_leaf=4, min_samples_split=10, n_estimators=9
[CV]  bootstrap=True, criterion=mse, max_depth=8, max_features=aut
o, min_samples_leaf=4, min_samples_split=8, n_estimators=6, total=
17.8s
[CV] bootstrap=True, criterion=mse, max_depth=8, max_features=auto
, min_samples_leaf=4, min_samples_split=10, n_estimators=9
[CV]  bootstrap=True, criterion=mse, max_depth=8, max_features=aut
o, min_samples_leaf=3, min_samples_split=12, n_estimators=10, tota
l=  26.3s
[CV]  bootstrap=True, criterion=mse, max_depth=8, max_features=aut
o, min_samples_leaf=4, min_samples_split=10, n_estimators=3, total
=   10.3s
[CV] bootstrap=True, criterion=mse, max_depth=8, max_features=auto
, min_samples_leaf=4, min_samples_split=10, n_estimators=9
[CV] bootstrap=True, criterion=mse, max_depth=8, max_features=auto
, min_samples_leaf=4, min_samples_split=10, n_estimators=10
[CV]  bootstrap=True, criterion=mse, max_depth=8, max_features=aut
o, min_samples_leaf=3, min_samples_split=12, n_estimators=10, tota
l=  26.8s
[CV]  bootstrap=True, criterion=mse, max_depth=8, max_features=aut
o, min_samples_leaf=4, min_samples_split=10, n_estimators=4, total
=   11.3s
[CV] bootstrap=True, criterion=mse, max_depth=8, max_features=auto
, min_samples_leaf=4, min_samples_split=10, n_estimators=10
[CV] bootstrap=True, criterion=mse, max_depth=8, max_features=auto
, min_samples_leaf=4, min_samples_split=10, n_estimators=10
[CV]  bootstrap=True, criterion=mse, max_depth=8, max_features=aut
o, min_samples_leaf=3, min_samples_split=12, n_estimators=9, total
=   29.0s
[CV] bootstrap=True, criterion=mse, max_depth=8, max_features=auto
, min_samples_leaf=4, min_samples_split=10, n_estimators=10
[CV]  bootstrap=True, criterion=mse, max_depth=8, max_features=aut
o, min_samples_leaf=4, min_samples_split=8, n_estimators=7, total=
18.7s
[CV]  bootstrap=True, criterion=mse, max_depth=8, max_features=aut
o, min_samples_leaf=4, min_samples_split=8, n_estimators=7, total=
18.4s
[CV] bootstrap=True, criterion=mse, max_depth=8, max_features=auto
, min_samples_leaf=4, min_samples_split=10, n_estimators=10
[CV]  bootstrap=True, criterion=mse, max_depth=8, max_features=aut
o, min_samples_leaf=3, min_samples_split=12, n_estimators=10, tota
l=  29.2s
[CV] bootstrap=True, criterion=mse, max_depth=8, max_features=auto
, min_samples_leaf=4, min_samples_split=12, n_estimators=2
```

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[CV] bootstrap=True, criterion=mse, max_depth=8, max_features=auto
, min_samples_leaf=4, min_samples_split=12, n_estimators=2
[CV]  bootstrap=True, criterion=mse, max_depth=8, max_features=aut
o, min_samples_leaf=4, min_samples_split=8, n_estimators=7, total=
19.6s
[CV] bootstrap=True, criterion=mse, max_depth=8, max_features=auto
, min_samples_leaf=4, min_samples_split=12, n_estimators=2
[CV]  bootstrap=True, criterion=mse, max_depth=8, max_features=aut
o, min_samples_leaf=3, min_samples_split=12, n_estimators=10, tota
l=  29.3s
[CV] bootstrap=True, criterion=mse, max_depth=8, max_features=auto
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o, min_samples_leaf=4, min_samples_split=10, n_estimators=4, total
=  10.8s
[CV] bootstrap=True, criterion=mse, max_depth=8, max_features=auto
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o, min_samples_leaf=4, min_samples_split=10, n_estimators=4, total
=  10.8s
[CV] bootstrap=True, criterion=mse, max_depth=8, max_features=auto
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[CV]  bootstrap=True, criterion=mse, max_depth=8, max_features=aut
o, min_samples_leaf=4, min_samples_split=10, n_estimators=4, total
=  10.9s
[CV] bootstrap=True, criterion=mse, max_depth=8, max_features=auto
, min_samples_leaf=4, min_samples_split=12, n_estimators=3
[CV]  bootstrap=True, criterion=mse, max_depth=8, max_features=aut
o, min_samples_leaf=3, min_samples_split=12, n_estimators=10, tota
l=  30.1s
[CV]  bootstrap=True, criterion=mse, max_depth=8, max_features=aut
o, min_samples_leaf=4, min_samples_split=8, n_estimators=7, total=
21.1s
[CV] bootstrap=True, criterion=mse, max_depth=8, max_features=auto
, min_samples_leaf=4, min_samples_split=12, n_estimators=3
[CV] bootstrap=True, criterion=mse, max_depth=8, max_features=auto
, min_samples_leaf=4, min_samples_split=12, n_estimators=3
[CV]  bootstrap=True, criterion=mse, max_depth=8, max_features=aut
o, min_samples_leaf=4, min_samples_split=8, n_estimators=7, total=
20.1s
[CV] bootstrap=True, criterion=mse, max_depth=8, max_features=auto
, min_samples_leaf=4, min_samples_split=12, n_estimators=3
[CV]  bootstrap=True, criterion=mse, max_depth=8, max_features=aut
o, min_samples_leaf=4, min_samples_split=10, n_estimators=4, total
=  11.3s
[CV] bootstrap=True, criterion=mse, max_depth=8, max_features=auto
, min_samples_leaf=4, min_samples_split=12, n_estimators=4
[CV]  bootstrap=True, criterion=mse, max_depth=8, max_features=aut
o, min_samples_leaf=4, min_samples_split=10, n_estimators=5, total
=  13.2s
[CV] bootstrap=True, criterion=mse, max_depth=8, max_features=auto
, min_samples_leaf=4, min_samples_split=12, n_estimators=4
[CV]  bootstrap=True, criterion=mse, max_depth=8, max_features=aut
o, min_samples_leaf=4, min_samples_split=8, n_estimators=8, total=
```

```
22.6s
[CV] bootstrap=True, criterion=mse, max_depth=8, max_features=auto
, min_samples_leaf=4, min_samples_split=12, n_estimators=4
[CV]  bootstrap=True, criterion=mse, max_depth=8, max_features=aut
o, min_samples_leaf=4, min_samples_split=10, n_estimators=5, total
=  13.5s
[CV] bootstrap=True, criterion=mse, max_depth=8, max_features=auto
, min_samples_leaf=4, min_samples_split=12, n_estimators=4
[CV]  bootstrap=True, criterion=mse, max_depth=8, max_features=aut
o, min_samples_leaf=4, min_samples_split=8, n_estimators=8, total=
21.7s
[CV]  bootstrap=True, criterion=mse, max_depth=8, max_features=aut
o, min_samples_leaf=4, min_samples_split=10, n_estimators=5, total
=  13.5s
[CV] bootstrap=True, criterion=mse, max_depth=8, max_features=auto
, min_samples_leaf=4, min_samples_split=12, n_estimators=4
[CV]  bootstrap=True, criterion=mse, max_depth=8, max_features=aut
o, min_samples_leaf=4, min_samples_split=10, n_estimators=5, total
=  13.2s
[CV] bootstrap=True, criterion=mse, max_depth=8, max_features=auto
, min_samples_leaf=4, min_samples_split=12, n_estimators=5
[CV] bootstrap=True, criterion=mse, max_depth=8, max_features=auto
, min_samples_leaf=4, min_samples_split=12, n_estimators=5
[CV]  bootstrap=True, criterion=mse, max_depth=8, max_features=aut
o, min_samples_leaf=4, min_samples_split=10, n_estimators=5, total
=  13.8s
[CV] bootstrap=True, criterion=mse, max_depth=8, max_features=auto
, min_samples_leaf=4, min_samples_split=12, n_estimators=5
[CV]  bootstrap=True, criterion=mse, max_depth=8, max_features=aut
o, min_samples_leaf=4, min_samples_split=8, n_estimators=8, total=
22.8s
[CV] bootstrap=True, criterion=mse, max_depth=8, max_features=auto
, min_samples_leaf=4, min_samples_split=12, n_estimators=5
[CV]  bootstrap=True, criterion=mse, max_depth=8, max_features=aut
o, min_samples_leaf=4, min_samples_split=12, n_estimators=2, total
=   5.4s
[CV] bootstrap=True, criterion=mse, max_depth=8, max_features=auto
, min_samples_leaf=4, min_samples_split=12, n_estimators=5
[CV]  bootstrap=True, criterion=mse, max_depth=8, max_features=aut
o, min_samples_leaf=4, min_samples_split=12, n_estimators=2, total
=   5.4s
[CV] bootstrap=True, criterion=mse, max_depth=8, max_features=auto
, min_samples_leaf=4, min_samples_split=12, n_estimators=6
[CV]  bootstrap=True, criterion=mse, max_depth=8, max_features=aut
o, min_samples_leaf=4, min_samples_split=12, n_estimators=2, total
=   5.5s
[CV] bootstrap=True, criterion=mse, max_depth=8, max_features=auto
, min_samples_leaf=4, min_samples_split=12, n_estimators=6
[CV]  bootstrap=True, criterion=mse, max_depth=8, max_features=aut
o, min_samples_leaf=4, min_samples_split=8, n_estimators=8, total=
23.6s
[CV] bootstrap=True, criterion=mse, max_depth=8, max_features=auto
, min_samples_leaf=4, min_samples_split=12, n_estimators=6
[CV]  bootstrap=True, criterion=mse, max_depth=8, max_features=aut
```

```
o, min_samples_leaf=4, min_samples_split=8, n_estimators=8, total=
23.6s
[CV] bootstrap=True, criterion=mse, max_depth=8, max_features=auto
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[CV]  bootstrap=True, criterion=mse, max_depth=8, max_features=aut
o, min_samples_leaf=4, min_samples_split=12, n_estimators=2, total
=   6.7s
[CV] bootstrap=True, criterion=mse, max_depth=8, max_features=auto
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o, min_samples_leaf=4, min_samples_split=12, n_estimators=2, total
=   7.0s
[CV] bootstrap=True, criterion=mse, max_depth=8, max_features=auto
, min_samples_leaf=4, min_samples_split=12, n_estimators=7
[CV]  bootstrap=True, criterion=mse, max_depth=8, max_features=aut
o, min_samples_leaf=4, min_samples_split=8, n_estimators=9, total=
24.0s
[CV] bootstrap=True, criterion=mse, max_depth=8, max_features=auto
, min_samples_leaf=4, min_samples_split=12, n_estimators=7
[CV]  bootstrap=True, criterion=mse, max_depth=8, max_features=aut
o, min_samples_leaf=4, min_samples_split=10, n_estimators=6, total
=  16.1s
[CV] bootstrap=True, criterion=mse, max_depth=8, max_features=auto
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[CV]  bootstrap=True, criterion=mse, max_depth=8, max_features=aut
o, min_samples_leaf=4, min_samples_split=10, n_estimators=6, total
=  16.5s
[CV] bootstrap=True, criterion=mse, max_depth=8, max_features=auto
, min_samples_leaf=4, min_samples_split=12, n_estimators=7
[CV]  bootstrap=True, criterion=mse, max_depth=8, max_features=aut
o, min_samples_leaf=4, min_samples_split=8, n_estimators=9, total=
25.5s
[CV]  bootstrap=True, criterion=mse, max_depth=8, max_features=aut
o, min_samples_leaf=4, min_samples_split=12, n_estimators=3, total
=   8.1s
[CV] bootstrap=True, criterion=mse, max_depth=8, max_features=auto
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[CV] bootstrap=True, criterion=mse, max_depth=8, max_features=auto
, min_samples_leaf=4, min_samples_split=12, n_estimators=8
[CV]  bootstrap=True, criterion=mse, max_depth=8, max_features=aut
o, min_samples_leaf=4, min_samples_split=8, n_estimators=9, total=
26.0s
[CV]  bootstrap=True, criterion=mse, max_depth=8, max_features=aut
o, min_samples_leaf=4, min_samples_split=10, n_estimators=6, total
=  17.2s
[CV] bootstrap=True, criterion=mse, max_depth=8, max_features=auto
, min_samples_leaf=4, min_samples_split=12, n_estimators=8
[CV]  bootstrap=True, criterion=mse, max_depth=8, max_features=aut
o, min_samples_leaf=4, min_samples_split=12, n_estimators=3, total
=   7.9s
[CV] bootstrap=True, criterion=mse, max_depth=8, max_features=auto
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[CV]  bootstrap=True, criterion=mse, max_depth=8, max_features=aut
o, min_samples_leaf=4, min_samples_split=8, n_estimators=9, total=
```

```
25.6s
[CV] bootstrap=True, criterion=mse, max_depth=8, max_features=auto
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[CV]  bootstrap=True, criterion=mse, max_depth=8, max_features=aut
o, min_samples_leaf=4, min_samples_split=10, n_estimators=6, total
=  17.3s
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[CV]  bootstrap=True, criterion=mse, max_depth=8, max_features=aut
o, min_samples_leaf=4, min_samples_split=8, n_estimators=9, total=
26.6s
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o, min_samples_leaf=4, min_samples_split=10, n_estimators=6, total
=  16.0s
[CV] bootstrap=True, criterion=mse, max_depth=8, max_features=auto
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[CV]  bootstrap=True, criterion=mse, max_depth=8, max_features=aut
o, min_samples_leaf=4, min_samples_split=12, n_estimators=3, total
=   8.7s
[CV] bootstrap=True, criterion=mse, max_depth=8, max_features=auto
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=  26.4s
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o, min_samples_leaf=4, min_samples_split=12, n_estimators=3, total
=   9.1s
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o, min_samples_leaf=4, min_samples_split=8, n_estimators=10, total
=  26.9s
[CV]  bootstrap=True, criterion=mse, max_depth=8, max_features=aut
o, min_samples_leaf=4, min_samples_split=8, n_estimators=10, total
=  26.8s
[CV] bootstrap=True, criterion=mse, max_depth=8, max_features=auto
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=  26.8s
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o, min_samples_leaf=4, min_samples_split=12, n_estimators=3, total
=  10.0s
[CV] bootstrap=True, criterion=mse, max_depth=8, max_features=auto
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[CV] bootstrap=True, criterion=mse, max_depth=8, max_features=auto
```

```
, min_samples_leaf=4, min_samples_split=12, n_estimators=10
[CV]  bootstrap=True, criterion=mse, max_depth=8, max_features=aut
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=  11.1s
[CV]  bootstrap=True, criterion=mse, max_depth=8, max_features=aut
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=  18.6s
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=  28.4s
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=  18.8s
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o, min_samples_leaf=4, min_samples_split=10, n_estimators=7, total
=  18.7s
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o, min_samples_leaf=4, min_samples_split=12, n_estimators=4, total
=  10.8s
[CV] bootstrap=True, criterion=mse, max_depth=8, max_features=auto
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o, min_samples_leaf=4, min_samples_split=10, n_estimators=7, total
=  21.2s
[CV] bootstrap=True, criterion=mse, max_depth=8, max_features=auto
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[CV]  bootstrap=True, criterion=mse, max_depth=8, max_features=aut
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=  10.9s
[CV] bootstrap=True, criterion=mse, max_depth=8, max_features=auto
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o, min_samples_leaf=4, min_samples_split=12, n_estimators=4, total
=  11.4s
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[CV]  bootstrap=True, criterion=mse, max_depth=8, max_features=aut
o, min_samples_leaf=4, min_samples_split=10, n_estimators=7, total
=  21.1s
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o, min_samples_leaf=4, min_samples_split=12, n_estimators=4, total
=  11.6s
```

```
[CV] bootstrap=True, criterion=mse, max_depth=8, max_features=auto
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o, min_samples_leaf=4, min_samples_split=10, n_estimators=8, total
=  21.2s
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o, min_samples_leaf=4, min_samples_split=10, n_estimators=8, total
=  21.1s
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o, min_samples_leaf=4, min_samples_split=10, n_estimators=8, total
=  22.2s
[CV] bootstrap=True, criterion=mse, max_depth=8, max_features=auto
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[CV]  bootstrap=True, criterion=mse, max_depth=8, max_features=aut
o, min_samples_leaf=4, min_samples_split=12, n_estimators=5, total
=  13.4s
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=  13.5s
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[CV]  bootstrap=True, criterion=mse, max_depth=8, max_features=aut
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=  23.3s
[CV]  bootstrap=True, criterion=mse, max_depth=8, max_features=aut
o, min_samples_leaf=4, min_samples_split=12, n_estimators=5, total
=  13.5s
[CV] bootstrap=True, criterion=mse, max_depth=8, max_features=auto
, min_samples_leaf=5, min_samples_split=8, n_estimators=5
[CV]  bootstrap=True, criterion=mse, max_depth=8, max_features=aut
o, min_samples_leaf=4, min_samples_split=12, n_estimators=5, total
=  13.3s
[CV] bootstrap=True, criterion=mse, max_depth=8, max_features=auto
, min_samples_leaf=5, min_samples_split=8, n_estimators=5
[CV]  bootstrap=True, criterion=mse, max_depth=8, max_features=aut
o, min_samples_leaf=5, min_samples_split=8, n_estimators=2, total=
5.7s
[CV] bootstrap=True, criterion=mse, max_depth=8, max_features=auto
, min_samples_leaf=5, min_samples_split=8, n_estimators=5
[CV]  bootstrap=True, criterion=mse, max_depth=8, max_features=aut
o, min_samples_leaf=5, min_samples_split=8, n_estimators=2, total=
5.4s
[CV]  bootstrap=True, criterion=mse, max_depth=8, max_features=aut
o, min_samples_leaf=4, min_samples_split=12, n_estimators=5, total
=  13.8s
```

```
[CV] bootstrap=True, criterion=mse, max_depth=8, max_features=auto
, min_samples_leaf=5, min_samples_split=8, n_estimators=5
[CV] bootstrap=True, criterion=mse, max_depth=8, max_features=auto
, min_samples_leaf=5, min_samples_split=8, n_estimators=6
[CV]  bootstrap=True, criterion=mse, max_depth=8, max_features=aut
o, min_samples_leaf=5, min_samples_split=8, n_estimators=2, total=
  5.5s
[CV]  bootstrap=True, criterion=mse, max_depth=8, max_features=aut
o, min_samples_leaf=5, min_samples_split=8, n_estimators=2, total=
  6.1s
[CV]  bootstrap=True, criterion=mse, max_depth=8, max_features=aut
o, min_samples_leaf=5, min_samples_split=8, n_estimators=2, total=
  5.9s
[CV] bootstrap=True, criterion=mse, max_depth=8, max_features=auto
, min_samples_leaf=5, min_samples_split=8, n_estimators=6
[CV] bootstrap=True, criterion=mse, max_depth=8, max_features=auto
, min_samples_leaf=5, min_samples_split=8, n_estimators=6
[CV] bootstrap=True, criterion=mse, max_depth=8, max_features=auto
, min_samples_leaf=5, min_samples_split=8, n_estimators=6
[CV] bootstrap=True, criterion=mse, max_depth=8, max_features=auto
, min_samples_leaf=5, min_samples_split=8, n_estimators=6
[CV] bootstrap=True, criterion=mse, max_depth=8, max_features=auto
, min_samples_leaf=5, min_samples_split=8, n_estimators=7
[CV]  bootstrap=True, criterion=mse, max_depth=8, max_features=aut
o, min_samples_leaf=4, min_samples_split=10, n_estimators=9, total
=  24.8s
[CV] bootstrap=True, criterion=mse, max_depth=8, max_features=auto
, min_samples_leaf=5, min_samples_split=8, n_estimators=7
[CV]  bootstrap=True, criterion=mse, max_depth=8, max_features=aut
o, min_samples_leaf=4, min_samples_split=10, n_estimators=9, total
=  24.2s
[CV] bootstrap=True, criterion=mse, max_depth=8, max_features=auto
, min_samples_leaf=5, min_samples_split=8, n_estimators=7
[CV]  bootstrap=True, criterion=mse, max_depth=8, max_features=aut
o, min_samples_leaf=4, min_samples_split=10, n_estimators=9, total
=  25.2s
[CV] bootstrap=True, criterion=mse, max_depth=8, max_features=auto
, min_samples_leaf=5, min_samples_split=8, n_estimators=7
[CV]  bootstrap=True, criterion=mse, max_depth=8, max_features=aut
o, min_samples_leaf=4, min_samples_split=12, n_estimators=6, total
=  16.2s
[CV] bootstrap=True, criterion=mse, max_depth=8, max_features=auto
, min_samples_leaf=5, min_samples_split=8, n_estimators=7
[CV]  bootstrap=True, criterion=mse, max_depth=8, max_features=aut
o, min_samples_leaf=4, min_samples_split=10, n_estimators=9, total
=  25.9s
[CV] bootstrap=True, criterion=mse, max_depth=8, max_features=auto
, min_samples_leaf=5, min_samples_split=8, n_estimators=8
[CV]  bootstrap=True, criterion=mse, max_depth=8, max_features=aut
o, min_samples_leaf=4, min_samples_split=10, n_estimators=9, total
=  25.8s
[CV] bootstrap=True, criterion=mse, max_depth=8, max_features=auto
, min_samples_leaf=5, min_samples_split=8, n_estimators=8
[CV]  bootstrap=True, criterion=mse, max_depth=8, max_features=aut
```

```
o, min_samples_leaf=4, min_samples_split=12, n_estimators=6, total
=  17.3s
[CV] bootstrap=True, criterion=mse, max_depth=8, max_features=auto
, min_samples_leaf=5, min_samples_split=8, n_estimators=8
[CV]  bootstrap=True, criterion=mse, max_depth=8, max_features=aut
o, min_samples_leaf=5, min_samples_split=8, n_estimators=3, total=
8.4s
[CV] bootstrap=True, criterion=mse, max_depth=8, max_features=auto
, min_samples_leaf=5, min_samples_split=8, n_estimators=8
[CV]  bootstrap=True, criterion=mse, max_depth=8, max_features=aut
o, min_samples_leaf=4, min_samples_split=12, n_estimators=6, total
=  17.0s
[CV] bootstrap=True, criterion=mse, max_depth=8, max_features=auto
, min_samples_leaf=5, min_samples_split=8, n_estimators=8
[CV]  bootstrap=True, criterion=mse, max_depth=8, max_features=aut
o, min_samples_leaf=4, min_samples_split=12, n_estimators=6, total
=  17.1s
[CV] bootstrap=True, criterion=mse, max_depth=8, max_features=auto
, min_samples_leaf=5, min_samples_split=8, n_estimators=9
[CV]  bootstrap=True, criterion=mse, max_depth=8, max_features=aut
o, min_samples_leaf=5, min_samples_split=8, n_estimators=3, total=
8.4s
[CV] bootstrap=True, criterion=mse, max_depth=8, max_features=auto
, min_samples_leaf=5, min_samples_split=8, n_estimators=9
[CV]  bootstrap=True, criterion=mse, max_depth=8, max_features=aut
o, min_samples_leaf=4, min_samples_split=12, n_estimators=6, total
=  17.7s
[CV] bootstrap=True, criterion=mse, max_depth=8, max_features=auto
, min_samples_leaf=5, min_samples_split=8, n_estimators=9
[CV]  bootstrap=True, criterion=mse, max_depth=8, max_features=aut
o, min_samples_leaf=5, min_samples_split=8, n_estimators=3, total=
9.0s
[CV] bootstrap=True, criterion=mse, max_depth=8, max_features=auto
, min_samples_leaf=5, min_samples_split=8, n_estimators=9

[Parallel(n_jobs=-1)]: Done 1873 tasks      | elapsed:  5.1min

[CV]  bootstrap=True, criterion=mse, max_depth=8, max_features=aut
o, min_samples_leaf=4, min_samples_split=10, n_estimators=10, tota
l=  27.8s
[CV] bootstrap=True, criterion=mse, max_depth=8, max_features=auto
, min_samples_leaf=5, min_samples_split=8, n_estimators=9
[CV]  bootstrap=True, criterion=mse, max_depth=8, max_features=aut
o, min_samples_leaf=5, min_samples_split=8, n_estimators=3, total=
10.1s
[CV]  bootstrap=True, criterion=mse, max_depth=8, max_features=aut
o, min_samples_leaf=4, min_samples_split=10, n_estimators=10, tota
l=  26.5s
[CV] bootstrap=True, criterion=mse, max_depth=8, max_features=auto
, min_samples_leaf=5, min_samples_split=8, n_estimators=10
[CV]  bootstrap=True, criterion=mse, max_depth=8, max_features=aut
o, min_samples_leaf=5, min_samples_split=8, n_estimators=3, total=
9.6s
[CV] bootstrap=True, criterion=mse, max_depth=8, max_features=auto
```

, min_samples_leaf=5, min_samples_split=8, n_estimators=10
[CV] bootstrap=True, criterion=mse, max_depth=8, max_features=auto
, min_samples_leaf=5, min_samples_split=8, n_estimators=10
[CV] bootstrap=True, criterion=mse, max_depth=8, max_features=aut
o, min_samples_leaf=4, min_samples_split=12, n_estimators=7, total
= 18.4s
[CV] bootstrap=True, criterion=mse, max_depth=8, max_features=auto
, min_samples_leaf=5, min_samples_split=8, n_estimators=10
[CV] bootstrap=True, criterion=mse, max_depth=8, max_features=aut
o, min_samples_leaf=4, min_samples_split=10, n_estimators=10, tota
l= 26.3s
[CV] bootstrap=True, criterion=mse, max_depth=8, max_features=auto
, min_samples_leaf=5, min_samples_split=8, n_estimators=10
[CV] bootstrap=True, criterion=mse, max_depth=8, max_features=aut
o, min_samples_leaf=4, min_samples_split=12, n_estimators=7, total
= 18.7s
[CV] bootstrap=True, criterion=mse, max_depth=8, max_features=auto
, min_samples_leaf=5, min_samples_split=10, n_estimators=2
[CV] bootstrap=True, criterion=mse, max_depth=8, max_features=aut
o, min_samples_leaf=4, min_samples_split=12, n_estimators=7, total
= 19.0s
[CV] bootstrap=True, criterion=mse, max_depth=8, max_features=aut
o, min_samples_leaf=5, min_samples_split=8, n_estimators=4, total=
10.5s
[CV] bootstrap=True, criterion=mse, max_depth=8, max_features=auto
, min_samples_leaf=5, min_samples_split=10, n_estimators=2
[CV] bootstrap=True, criterion=mse, max_depth=8, max_features=aut
o, min_samples_leaf=5, min_samples_split=8, n_estimators=4, total=
10.8s
[CV] bootstrap=True, criterion=mse, max_depth=8, max_features=auto
, min_samples_leaf=5, min_samples_split=10, n_estimators=2
[CV] bootstrap=True, criterion=mse, max_depth=8, max_features=auto
, min_samples_leaf=5, min_samples_split=10, n_estimators=2
[CV] bootstrap=True, criterion=mse, max_depth=8, max_features=aut
o, min_samples_leaf=4, min_samples_split=12, n_estimators=7, total
= 20.5s
[CV] bootstrap=True, criterion=mse, max_depth=8, max_features=auto
, min_samples_leaf=5, min_samples_split=10, n_estimators=2
[CV] bootstrap=True, criterion=mse, max_depth=8, max_features=aut
o, min_samples_leaf=4, min_samples_split=10, n_estimators=10, tota
l= 29.0s
[CV] bootstrap=True, criterion=mse, max_depth=8, max_features=auto
, min_samples_leaf=5, min_samples_split=10, n_estimators=3
[CV] bootstrap=True, criterion=mse, max_depth=8, max_features=aut
o, min_samples_leaf=4, min_samples_split=12, n_estimators=7, total
= 19.7s
[CV] bootstrap=True, criterion=mse, max_depth=8, max_features=auto
, min_samples_leaf=5, min_samples_split=10, n_estimators=3
[CV] bootstrap=True, criterion=mse, max_depth=8, max_features=aut
o, min_samples_leaf=5, min_samples_split=8, n_estimators=4, total=
12.1s
[CV] bootstrap=True, criterion=mse, max_depth=8, max_features=auto
, min_samples_leaf=5, min_samples_split=10, n_estimators=3
[CV] bootstrap=True, criterion=mse, max_depth=8, max_features=aut

```
o, min_samples_leaf=5, min_samples_split=8, n_estimators=4, total=
10.7s
[CV] bootstrap=True, criterion=mse, max_depth=8, max_features=auto
, min_samples_leaf=5, min_samples_split=10, n_estimators=3
[CV]  bootstrap=True, criterion=mse, max_depth=8, max_features=aut
o, min_samples_leaf=5, min_samples_split=8, n_estimators=4, total=
11.3s
[CV] bootstrap=True, criterion=mse, max_depth=8, max_features=auto
, min_samples_leaf=5, min_samples_split=10, n_estimators=3
[CV]  bootstrap=True, criterion=mse, max_depth=8, max_features=aut
o, min_samples_leaf=4, min_samples_split=10, n_estimators=10, tota
l=  30.6s
[CV] bootstrap=True, criterion=mse, max_depth=8, max_features=auto
, min_samples_leaf=5, min_samples_split=10, n_estimators=4
[CV]  bootstrap=True, criterion=mse, max_depth=8, max_features=aut
o, min_samples_leaf=4, min_samples_split=12, n_estimators=8, total
=  21.2s
[CV] bootstrap=True, criterion=mse, max_depth=8, max_features=auto
, min_samples_leaf=5, min_samples_split=10, n_estimators=4
[CV]  bootstrap=True, criterion=mse, max_depth=8, max_features=aut
o, min_samples_leaf=4, min_samples_split=12, n_estimators=8, total
=  21.3s
[CV] bootstrap=True, criterion=mse, max_depth=8, max_features=auto
, min_samples_leaf=5, min_samples_split=10, n_estimators=4
[CV]  bootstrap=True, criterion=mse, max_depth=8, max_features=aut
o, min_samples_leaf=5, min_samples_split=8, n_estimators=5, total=
13.4s
[CV] bootstrap=True, criterion=mse, max_depth=8, max_features=auto
, min_samples_leaf=5, min_samples_split=10, n_estimators=4
[CV]  bootstrap=True, criterion=mse, max_depth=8, max_features=aut
o, min_samples_leaf=4, min_samples_split=12, n_estimators=8, total
=  23.0s
[CV] bootstrap=True, criterion=mse, max_depth=8, max_features=auto
, min_samples_leaf=5, min_samples_split=10, n_estimators=4
[CV]  bootstrap=True, criterion=mse, max_depth=8, max_features=aut
o, min_samples_leaf=5, min_samples_split=8, n_estimators=5, total=
13.4s
[CV] bootstrap=True, criterion=mse, max_depth=8, max_features=auto
, min_samples_leaf=5, min_samples_split=10, n_estimators=5
[CV]  bootstrap=True, criterion=mse, max_depth=8, max_features=aut
o, min_samples_leaf=5, min_samples_split=10, n_estimators=2, total
=   5.3s
[CV] bootstrap=True, criterion=mse, max_depth=8, max_features=auto
, min_samples_leaf=5, min_samples_split=10, n_estimators=5
[CV]  bootstrap=True, criterion=mse, max_depth=8, max_features=aut
o, min_samples_leaf=5, min_samples_split=8, n_estimators=5, total=
13.8s
[CV]  bootstrap=True, criterion=mse, max_depth=8, max_features=aut
o, min_samples_leaf=5, min_samples_split=10, n_estimators=2, total
=   5.4s
[CV] bootstrap=True, criterion=mse, max_depth=8, max_features=auto
, min_samples_leaf=5, min_samples_split=10, n_estimators=5
[CV]  bootstrap=True, criterion=mse, max_depth=8, max_features=aut
o, min_samples_leaf=5, min_samples_split=10, n_estimators=2, total
```

```
=    5.4s
[CV] bootstrap=True, criterion=mse, max_depth=8, max_features=auto
, min_samples_leaf=5, min_samples_split=10, n_estimators=5
[CV]  bootstrap=True, criterion=mse, max_depth=8, max_features=aut
o, min_samples_leaf=5, min_samples_split=10, n_estimators=2, total
=    5.4s
[CV] bootstrap=True, criterion=mse, max_depth=8, max_features=auto
, min_samples_leaf=5, min_samples_split=10, n_estimators=5
[CV]  bootstrap=True, criterion=mse, max_depth=8, max_features=aut
o, min_samples_leaf=4, min_samples_split=12, n_estimators=8, total
=   24.0s
[CV] bootstrap=True, criterion=mse, max_depth=8, max_features=auto
, min_samples_leaf=5, min_samples_split=10, n_estimators=6
[CV]  bootstrap=True, criterion=mse, max_depth=8, max_features=aut
o, min_samples_leaf=4, min_samples_split=12, n_estimators=8, total
=   23.7s
[CV]  bootstrap=True, criterion=mse, max_depth=8, max_features=aut
o, min_samples_leaf=5, min_samples_split=8, n_estimators=5, total=
14.9s
[CV] bootstrap=True, criterion=mse, max_depth=8, max_features=auto
, min_samples_leaf=5, min_samples_split=10, n_estimators=6
[CV] bootstrap=True, criterion=mse, max_depth=8, max_features=auto
, min_samples_leaf=5, min_samples_split=10, n_estimators=6
[CV]  bootstrap=True, criterion=mse, max_depth=8, max_features=aut
o, min_samples_leaf=5, min_samples_split=8, n_estimators=5, total=
14.8s
[CV] bootstrap=True, criterion=mse, max_depth=8, max_features=auto
, min_samples_leaf=5, min_samples_split=10, n_estimators=6
[CV] bootstrap=True, criterion=mse, max_depth=8, max_features=auto
, min_samples_leaf=5, min_samples_split=10, n_estimators=6
[CV]  bootstrap=True, criterion=mse, max_depth=8, max_features=aut
o, min_samples_leaf=4, min_samples_split=12, n_estimators=9, total
=   24.1s
[CV] bootstrap=True, criterion=mse, max_depth=8, max_features=auto
, min_samples_leaf=5, min_samples_split=10, n_estimators=7
[CV]  bootstrap=True, criterion=mse, max_depth=8, max_features=aut
o, min_samples_leaf=5, min_samples_split=10, n_estimators=2, total
=    6.7s
[CV] bootstrap=True, criterion=mse, max_depth=8, max_features=auto
, min_samples_leaf=5, min_samples_split=10, n_estimators=7
[CV]  bootstrap=True, criterion=mse, max_depth=8, max_features=aut
o, min_samples_leaf=4, min_samples_split=12, n_estimators=9, total
=   24.3s
[CV] bootstrap=True, criterion=mse, max_depth=8, max_features=auto
, min_samples_leaf=5, min_samples_split=10, n_estimators=7
[CV]  bootstrap=True, criterion=mse, max_depth=8, max_features=aut
o, min_samples_leaf=5, min_samples_split=8, n_estimators=6, total=
16.0s
[CV]  bootstrap=True, criterion=mse, max_depth=8, max_features=aut
o, min_samples_leaf=4, min_samples_split=12, n_estimators=9, total
=   25.7s
[CV] bootstrap=True, criterion=mse, max_depth=8, max_features=auto
, min_samples_leaf=5, min_samples_split=10, n_estimators=7
[CV]  bootstrap=True, criterion=mse, max_depth=8, max_features=aut
```

```
o, min_samples_leaf=5, min_samples_split=8, n_estimators=6, total=
16.3s
[CV] bootstrap=True, criterion=mse, max_depth=8, max_features=auto
, min_samples_leaf=5, min_samples_split=10, n_estimators=7
[CV] bootstrap=True, criterion=mse, max_depth=8, max_features=auto
, min_samples_leaf=5, min_samples_split=10, n_estimators=8
[CV]  bootstrap=True, criterion=mse, max_depth=8, max_features=aut
o, min_samples_leaf=5, min_samples_split=8, n_estimators=6, total=
16.3s
[CV] bootstrap=True, criterion=mse, max_depth=8, max_features=auto
, min_samples_leaf=5, min_samples_split=10, n_estimators=8
[CV]  bootstrap=True, criterion=mse, max_depth=8, max_features=aut
o, min_samples_leaf=4, min_samples_split=12, n_estimators=9, total
=  26.2s
[CV] bootstrap=True, criterion=mse, max_depth=8, max_features=auto
, min_samples_leaf=5, min_samples_split=10, n_estimators=8
[CV]  bootstrap=True, criterion=mse, max_depth=8, max_features=aut
o, min_samples_leaf=5, min_samples_split=8, n_estimators=6, total=
16.8s
[CV] bootstrap=True, criterion=mse, max_depth=8, max_features=auto
, min_samples_leaf=5, min_samples_split=10, n_estimators=8
[CV]  bootstrap=True, criterion=mse, max_depth=8, max_features=aut
o, min_samples_leaf=5, min_samples_split=10, n_estimators=3, total
=   8.1s
[CV] bootstrap=True, criterion=mse, max_depth=8, max_features=auto
, min_samples_leaf=5, min_samples_split=10, n_estimators=8
[CV]  bootstrap=True, criterion=mse, max_depth=8, max_features=aut
o, min_samples_leaf=5, min_samples_split=8, n_estimators=6, total=
17.0s
[CV] bootstrap=True, criterion=mse, max_depth=8, max_features=auto
, min_samples_leaf=5, min_samples_split=10, n_estimators=9
[CV]  bootstrap=True, criterion=mse, max_depth=8, max_features=aut
o, min_samples_leaf=4, min_samples_split=12, n_estimators=9, total
=  26.5s
[CV] bootstrap=True, criterion=mse, max_depth=8, max_features=auto
, min_samples_leaf=5, min_samples_split=10, n_estimators=9
[CV]  bootstrap=True, criterion=mse, max_depth=8, max_features=aut
o, min_samples_leaf=5, min_samples_split=10, n_estimators=3, total
=   8.1s
[CV] bootstrap=True, criterion=mse, max_depth=8, max_features=auto
, min_samples_leaf=5, min_samples_split=10, n_estimators=9
[CV]  bootstrap=True, criterion=mse, max_depth=8, max_features=aut
o, min_samples_leaf=5, min_samples_split=10, n_estimators=3, total
=   8.9s
[CV] bootstrap=True, criterion=mse, max_depth=8, max_features=auto
, min_samples_leaf=5, min_samples_split=10, n_estimators=9
[CV]  bootstrap=True, criterion=mse, max_depth=8, max_features=aut
o, min_samples_leaf=4, min_samples_split=12, n_estimators=10, tota
l=  26.4s
[CV] bootstrap=True, criterion=mse, max_depth=8, max_features=auto
, min_samples_leaf=5, min_samples_split=10, n_estimators=9
[CV]  bootstrap=True, criterion=mse, max_depth=8, max_features=aut
o, min_samples_leaf=4, min_samples_split=12, n_estimators=10, tota
l=  26.3s
```

```
[CV] bootstrap=True, criterion=mse, max_depth=8, max_features=auto
, min_samples_leaf=5, min_samples_split=10, n_estimators=10
[CV]  bootstrap=True, criterion=mse, max_depth=8, max_features=aut
o, min_samples_leaf=4, min_samples_split=12, n_estimators=10, tota
l=  26.7s
[CV] bootstrap=True, criterion=mse, max_depth=8, max_features=auto
, min_samples_leaf=5, min_samples_split=10, n_estimators=10
[CV]  bootstrap=True, criterion=mse, max_depth=8, max_features=aut
o, min_samples_leaf=5, min_samples_split=10, n_estimators=3, total
=   9.9s
[CV]  bootstrap=True, criterion=mse, max_depth=8, max_features=aut
o, min_samples_leaf=4, min_samples_split=12, n_estimators=10, tota
l=  27.4s
[CV] bootstrap=True, criterion=mse, max_depth=8, max_features=auto
, min_samples_leaf=5, min_samples_split=10, n_estimators=10
[CV] bootstrap=True, criterion=mse, max_depth=8, max_features=auto
, min_samples_leaf=5, min_samples_split=10, n_estimators=10
[CV]  bootstrap=True, criterion=mse, max_depth=8, max_features=aut
o, min_samples_leaf=5, min_samples_split=10, n_estimators=3, total
=   9.2s
[CV] bootstrap=True, criterion=mse, max_depth=8, max_features=auto
, min_samples_leaf=5, min_samples_split=10, n_estimators=10
[CV]  bootstrap=True, criterion=mse, max_depth=8, max_features=aut
o, min_samples_leaf=4, min_samples_split=12, n_estimators=10, tota
l=  27.5s
[CV] bootstrap=True, criterion=mse, max_depth=8, max_features=auto
, min_samples_leaf=5, min_samples_split=12, n_estimators=2
[CV]  bootstrap=True, criterion=mse, max_depth=8, max_features=aut
o, min_samples_leaf=5, min_samples_split=8, n_estimators=7, total=
20.2s
[CV] bootstrap=True, criterion=mse, max_depth=8, max_features=auto
, min_samples_leaf=5, min_samples_split=12, n_estimators=2
[CV]  bootstrap=True, criterion=mse, max_depth=8, max_features=aut
o, min_samples_leaf=5, min_samples_split=8, n_estimators=7, total=
18.6s
[CV] bootstrap=True, criterion=mse, max_depth=8, max_features=auto
, min_samples_leaf=5, min_samples_split=12, n_estimators=2
[CV]  bootstrap=True, criterion=mse, max_depth=8, max_features=aut
o, min_samples_leaf=5, min_samples_split=8, n_estimators=7, total=
18.3s
[CV] bootstrap=True, criterion=mse, max_depth=8, max_features=auto
, min_samples_leaf=5, min_samples_split=12, n_estimators=2
[CV]  bootstrap=True, criterion=mse, max_depth=8, max_features=aut
o, min_samples_leaf=5, min_samples_split=8, n_estimators=7, total=
19.7s
[CV] bootstrap=True, criterion=mse, max_depth=8, max_features=auto
, min_samples_leaf=5, min_samples_split=12, n_estimators=2
[CV]  bootstrap=True, criterion=mse, max_depth=8, max_features=aut
o, min_samples_leaf=5, min_samples_split=10, n_estimators=4, total
=  10.8s
[CV] bootstrap=True, criterion=mse, max_depth=8, max_features=auto
, min_samples_leaf=5, min_samples_split=12, n_estimators=3
[CV]  bootstrap=True, criterion=mse, max_depth=8, max_features=aut
o, min_samples_leaf=5, min_samples_split=10, n_estimators=4, total
```

```
=   10.7s
[CV] bootstrap=True, criterion=mse, max_depth=8, max_features=auto
, min_samples_leaf=5, min_samples_split=12, n_estimators=3
[CV]  bootstrap=True, criterion=mse, max_depth=8, max_features=aut
o, min_samples_leaf=5, min_samples_split=8, n_estimators=7, total=
20.3s
[CV] bootstrap=True, criterion=mse, max_depth=8, max_features=auto
, min_samples_leaf=5, min_samples_split=12, n_estimators=3
[CV]  bootstrap=True, criterion=mse, max_depth=8, max_features=aut
o, min_samples_leaf=5, min_samples_split=10, n_estimators=4, total
=   12.4s
[CV] bootstrap=True, criterion=mse, max_depth=8, max_features=auto
, min_samples_leaf=5, min_samples_split=12, n_estimators=3
[CV]  bootstrap=True, criterion=mse, max_depth=8, max_features=aut
o, min_samples_leaf=5, min_samples_split=10, n_estimators=4, total
=   10.8s
[CV] bootstrap=True, criterion=mse, max_depth=8, max_features=auto
, min_samples_leaf=5, min_samples_split=12, n_estimators=3
[CV]  bootstrap=True, criterion=mse, max_depth=8, max_features=aut
o, min_samples_leaf=5, min_samples_split=10, n_estimators=4, total
=   11.4s
[CV] bootstrap=True, criterion=mse, max_depth=8, max_features=auto
, min_samples_leaf=5, min_samples_split=12, n_estimators=4
[CV]  bootstrap=True, criterion=mse, max_depth=8, max_features=aut
o, min_samples_leaf=5, min_samples_split=8, n_estimators=8, total=
21.8s
[CV] bootstrap=True, criterion=mse, max_depth=8, max_features=auto
, min_samples_leaf=5, min_samples_split=12, n_estimators=4
[CV]  bootstrap=True, criterion=mse, max_depth=8, max_features=aut
o, min_samples_leaf=5, min_samples_split=8, n_estimators=8, total=
22.6s
[CV]  bootstrap=True, criterion=mse, max_depth=8, max_features=aut
o, min_samples_leaf=5, min_samples_split=8, n_estimators=8, total=
22.3s
[CV] bootstrap=True, criterion=mse, max_depth=8, max_features=auto
, min_samples_leaf=5, min_samples_split=12, n_estimators=4
[CV]  bootstrap=True, criterion=mse, max_depth=8, max_features=aut
o, min_samples_leaf=5, min_samples_split=12, n_estimators=2, total
=    6.3s
[CV] bootstrap=True, criterion=mse, max_depth=8, max_features=auto
, min_samples_leaf=5, min_samples_split=12, n_estimators=4
[CV]  bootstrap=True, criterion=mse, max_depth=8, max_features=aut
o, min_samples_leaf=5, min_samples_split=12, n_estimators=2, total
=    5.4s
[CV]  bootstrap=True, criterion=mse, max_depth=8, max_features=aut
o, min_samples_leaf=5, min_samples_split=8, n_estimators=8, total=
23.3s
[CV] bootstrap=True, criterion=mse, max_depth=8, max_features=auto
, min_samples_leaf=5, min_samples_split=12, n_estimators=4
[CV] bootstrap=True, criterion=mse, max_depth=8, max_features=auto
, min_samples_leaf=5, min_samples_split=12, n_estimators=5
[CV]  bootstrap=True, criterion=mse, max_depth=8, max_features=aut
o, min_samples_leaf=5, min_samples_split=12, n_estimators=2, total
=    5.7s
```

```
[CV]  bootstrap=True, criterion=mse, max_depth=8, max_features=aut
o, min_samples_leaf=5, min_samples_split=12, n_estimators=2, total
=   5.4s
[CV]  bootstrap=True, criterion=mse, max_depth=8, max_features=aut
o, min_samples_leaf=5, min_samples_split=10, n_estimators=5, total
=   13.5s
[CV] bootstrap=True, criterion=mse, max_depth=8, max_features=auto
, min_samples_leaf=5, min_samples_split=12, n_estimators=5
[CV]  bootstrap=True, criterion=mse, max_depth=8, max_features=aut
o, min_samples_leaf=5, min_samples_split=10, n_estimators=5, total
=   13.4s
[CV]  bootstrap=True, criterion=mse, max_depth=8, max_features=aut
o, min_samples_leaf=5, min_samples_split=10, n_estimators=5, total
=   13.3s
[CV] bootstrap=True, criterion=mse, max_depth=8, max_features=auto
, min_samples_leaf=5, min_samples_split=12, n_estimators=5
[CV] bootstrap=True, criterion=mse, max_depth=8, max_features=auto
, min_samples_leaf=5, min_samples_split=12, n_estimators=5
[CV]  bootstrap=True, criterion=mse, max_depth=8, max_features=aut
o, min_samples_leaf=5, min_samples_split=10, n_estimators=5, total
=   13.4s
[CV] bootstrap=True, criterion=mse, max_depth=8, max_features=auto
, min_samples_leaf=5, min_samples_split=12, n_estimators=5
[CV]  bootstrap=True, criterion=mse, max_depth=8, max_features=aut
o, min_samples_leaf=5, min_samples_split=10, n_estimators=5, total
=   13.4s
[CV] bootstrap=True, criterion=mse, max_depth=8, max_features=auto
, min_samples_leaf=5, min_samples_split=12, n_estimators=6
[CV] bootstrap=True, criterion=mse, max_depth=8, max_features=auto
, min_samples_leaf=5, min_samples_split=12, n_estimators=6
[CV] bootstrap=True, criterion=mse, max_depth=8, max_features=auto
, min_samples_leaf=5, min_samples_split=12, n_estimators=6
[CV] bootstrap=True, criterion=mse, max_depth=8, max_features=auto
, min_samples_leaf=5, min_samples_split=12, n_estimators=6
[CV]  bootstrap=True, criterion=mse, max_depth=8, max_features=aut
o, min_samples_leaf=5, min_samples_split=12, n_estimators=2, total
=   6.6s
[CV] bootstrap=True, criterion=mse, max_depth=8, max_features=auto
, min_samples_leaf=5, min_samples_split=12, n_estimators=6
[CV]  bootstrap=True, criterion=mse, max_depth=8, max_features=aut
o, min_samples_leaf=5, min_samples_split=8, n_estimators=8, total=
24.2s
[CV] bootstrap=True, criterion=mse, max_depth=8, max_features=auto
, min_samples_leaf=5, min_samples_split=12, n_estimators=7
[CV]  bootstrap=True, criterion=mse, max_depth=8, max_features=aut
o, min_samples_leaf=5, min_samples_split=8, n_estimators=9, total=
24.1s
[CV] bootstrap=True, criterion=mse, max_depth=8, max_features=auto
, min_samples_leaf=5, min_samples_split=12, n_estimators=7
[CV]  bootstrap=True, criterion=mse, max_depth=8, max_features=aut
o, min_samples_leaf=5, min_samples_split=12, n_estimators=3, total
=   8.0s
[CV] bootstrap=True, criterion=mse, max_depth=8, max_features=auto
, min_samples_leaf=5, min_samples_split=12, n_estimators=7
```

```
[CV]  bootstrap=True, criterion=mse, max_depth=8, max_features=aut
o, min_samples_leaf=5, min_samples_split=10, n_estimators=6, total
=  15.9s
[CV]  bootstrap=True, criterion=mse, max_depth=8, max_features=aut
o, min_samples_leaf=5, min_samples_split=8, n_estimators=9, total=
25.5s
[CV] bootstrap=True, criterion=mse, max_depth=8, max_features=auto
, min_samples_leaf=5, min_samples_split=12, n_estimators=7
[CV] bootstrap=True, criterion=mse, max_depth=8, max_features=auto
, min_samples_leaf=5, min_samples_split=12, n_estimators=7
[CV]  bootstrap=True, criterion=mse, max_depth=8, max_features=aut
o, min_samples_leaf=5, min_samples_split=12, n_estimators=3, total
=   8.2s
[CV] bootstrap=True, criterion=mse, max_depth=8, max_features=auto
, min_samples_leaf=5, min_samples_split=12, n_estimators=8
[CV]  bootstrap=True, criterion=mse, max_depth=8, max_features=aut
o, min_samples_leaf=5, min_samples_split=8, n_estimators=9, total=
25.4s
[CV] bootstrap=True, criterion=mse, max_depth=8, max_features=auto
, min_samples_leaf=5, min_samples_split=12, n_estimators=8
[CV]  bootstrap=True, criterion=mse, max_depth=8, max_features=aut
o, min_samples_leaf=5, min_samples_split=10, n_estimators=6, total
=  16.9s
[CV]  bootstrap=True, criterion=mse, max_depth=8, max_features=aut
o, min_samples_leaf=5, min_samples_split=8, n_estimators=9, total=
25.5s
[CV] bootstrap=True, criterion=mse, max_depth=8, max_features=auto
, min_samples_leaf=5, min_samples_split=12, n_estimators=8
[CV] bootstrap=True, criterion=mse, max_depth=8, max_features=auto
, min_samples_leaf=5, min_samples_split=12, n_estimators=8
[CV]  bootstrap=True, criterion=mse, max_depth=8, max_features=aut
o, min_samples_leaf=5, min_samples_split=12, n_estimators=3, total
=   8.0s
[CV] bootstrap=True, criterion=mse, max_depth=8, max_features=auto
, min_samples_leaf=5, min_samples_split=12, n_estimators=8
[CV]  bootstrap=True, criterion=mse, max_depth=8, max_features=aut
o, min_samples_leaf=5, min_samples_split=10, n_estimators=6, total
=  17.2s
[CV]  bootstrap=True, criterion=mse, max_depth=8, max_features=aut
o, min_samples_leaf=5, min_samples_split=8, n_estimators=9, total=
25.9s
[CV] bootstrap=True, criterion=mse, max_depth=8, max_features=auto
, min_samples_leaf=5, min_samples_split=12, n_estimators=9
[CV]  bootstrap=True, criterion=mse, max_depth=8, max_features=aut
o, min_samples_leaf=5, min_samples_split=10, n_estimators=6, total
=  17.6s
[CV]  bootstrap=True, criterion=mse, max_depth=8, max_features=aut
o, min_samples_leaf=5, min_samples_split=10, n_estimators=6, total
=  17.6s
[CV] bootstrap=True, criterion=mse, max_depth=8, max_features=auto
, min_samples_leaf=5, min_samples_split=12, n_estimators=9
[CV] bootstrap=True, criterion=mse, max_depth=8, max_features=auto
, min_samples_leaf=5, min_samples_split=12, n_estimators=9
[CV]  bootstrap=True, criterion=mse, max_depth=8, max_features=aut
```

```
o, min_samples_leaf=5, min_samples_split=12, n_estimators=3, total
=   9.3s
[CV] bootstrap=True, criterion=mse, max_depth=8, max_features=auto
, min_samples_leaf=5, min_samples_split=12, n_estimators=9
[CV]  bootstrap=True, criterion=mse, max_depth=8, max_features=aut
o, min_samples_leaf=5, min_samples_split=12, n_estimators=3, total
=   9.6s
[CV] bootstrap=True, criterion=mse, max_depth=8, max_features=auto
, min_samples_leaf=5, min_samples_split=12, n_estimators=9
[CV] bootstrap=True, criterion=mse, max_depth=8, max_features=auto
, min_samples_leaf=5, min_samples_split=12, n_estimators=10
[CV]  bootstrap=True, criterion=mse, max_depth=8, max_features=aut
o, min_samples_leaf=5, min_samples_split=8, n_estimators=10, total
=  26.8s
[CV] bootstrap=True, criterion=mse, max_depth=8, max_features=auto
, min_samples_leaf=5, min_samples_split=12, n_estimators=10
[CV]  bootstrap=True, criterion=mse, max_depth=8, max_features=aut
o, min_samples_leaf=5, min_samples_split=8, n_estimators=10, total
=  26.6s
[CV] bootstrap=True, criterion=mse, max_depth=8, max_features=auto
, min_samples_leaf=5, min_samples_split=12, n_estimators=10
[CV]  bootstrap=True, criterion=mse, max_depth=8, max_features=aut
o, min_samples_leaf=5, min_samples_split=8, n_estimators=10, total
=  26.6s
[CV] bootstrap=True, criterion=mse, max_depth=8, max_features=auto
, min_samples_leaf=5, min_samples_split=12, n_estimators=10
[CV]  bootstrap=True, criterion=mse, max_depth=8, max_features=aut
o, min_samples_leaf=5, min_samples_split=10, n_estimators=7, total
=  18.9s
[CV] bootstrap=True, criterion=mse, max_depth=8, max_features=auto
, min_samples_leaf=5, min_samples_split=12, n_estimators=10
[CV]  bootstrap=True, criterion=mse, max_depth=8, max_features=aut
o, min_samples_leaf=5, min_samples_split=10, n_estimators=7, total
=  18.8s
[CV] bootstrap=True, criterion=mse, max_depth=8, max_features=sqrt
, min_samples_leaf=3, min_samples_split=8, n_estimators=2
[CV]  bootstrap=True, criterion=mse, max_depth=8, max_features=aut
o, min_samples_leaf=5, min_samples_split=8, n_estimators=10, total
=  28.3s
[CV] bootstrap=True, criterion=mse, max_depth=8, max_features=sqrt
, min_samples_leaf=3, min_samples_split=8, n_estimators=2
[CV]  bootstrap=True, criterion=mse, max_depth=8, max_features=aut
o, min_samples_leaf=5, min_samples_split=10, n_estimators=7, total
=  19.1s
[CV]  bootstrap=True, criterion=mse, max_depth=8, max_features=aut
o, min_samples_leaf=5, min_samples_split=10, n_estimators=7, total
=  20.0s
[CV] bootstrap=True, criterion=mse, max_depth=8, max_features=sqrt
, min_samples_leaf=3, min_samples_split=8, n_estimators=2
[CV] bootstrap=True, criterion=mse, max_depth=8, max_features=sqrt
, min_samples_leaf=3, min_samples_split=8, n_estimators=2
[CV]  bootstrap=True, criterion=mse, max_depth=8, max_features=sqr
t, min_samples_leaf=3, min_samples_split=8, n_estimators=2, total=
0.8s
```

```
[CV] bootstrap=True, criterion=mse, max_depth=8, max_features=sqrt
, min_samples_leaf=3, min_samples_split=8, n_estimators=2
[CV]  bootstrap=True, criterion=mse, max_depth=8, max_features=sqr
t, min_samples_leaf=3, min_samples_split=8, n_estimators=2, total=
0.9s
[CV] bootstrap=True, criterion=mse, max_depth=8, max_features=sqrt
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[CV]  bootstrap=True, criterion=mse, max_depth=8, max_features=sqr
t, min_samples_leaf=3, min_samples_split=8, n_estimators=2, total=
0.8s
[CV] bootstrap=True, criterion=mse, max_depth=8, max_features=sqrt
, min_samples_leaf=3, min_samples_split=8, n_estimators=3
[CV]  bootstrap=True, criterion=mse, max_depth=8, max_features=sqr
t, min_samples_leaf=3, min_samples_split=8, n_estimators=2, total=
1.0s
[CV]  bootstrap=True, criterion=mse, max_depth=8, max_features=sqr
t, min_samples_leaf=3, min_samples_split=8, n_estimators=2, total=
1.0s
[CV] bootstrap=True, criterion=mse, max_depth=8, max_features=sqrt
, min_samples_leaf=3, min_samples_split=8, n_estimators=3
[CV]  bootstrap=True, criterion=mse, max_depth=8, max_features=aut
o, min_samples_leaf=5, min_samples_split=12, n_estimators=4, total
=  12.0s
[CV] bootstrap=True, criterion=mse, max_depth=8, max_features=sqrt
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, min_samples_leaf=3, min_samples_split=8, n_estimators=3
[CV]  bootstrap=True, criterion=mse, max_depth=8, max_features=aut
o, min_samples_leaf=5, min_samples_split=12, n_estimators=4, total
=  10.9s
[CV]  bootstrap=True, criterion=mse, max_depth=8, max_features=aut
o, min_samples_leaf=5, min_samples_split=8, n_estimators=10, total
=  30.7s
[CV] bootstrap=True, criterion=mse, max_depth=8, max_features=sqrt
, min_samples_leaf=3, min_samples_split=8, n_estimators=4
[CV] bootstrap=True, criterion=mse, max_depth=8, max_features=sqrt
, min_samples_leaf=3, min_samples_split=8, n_estimators=4
[CV]  bootstrap=True, criterion=mse, max_depth=8, max_features=aut
o, min_samples_leaf=5, min_samples_split=10, n_estimators=7, total
=  21.2s
[CV]  bootstrap=True, criterion=mse, max_depth=8, max_features=aut
o, min_samples_leaf=5, min_samples_split=10, n_estimators=8, total
=  21.1s
[CV] bootstrap=True, criterion=mse, max_depth=8, max_features=sqrt
, min_samples_leaf=3, min_samples_split=8, n_estimators=4
[CV] bootstrap=True, criterion=mse, max_depth=8, max_features=sqrt
, min_samples_leaf=3, min_samples_split=8, n_estimators=4
[CV]  bootstrap=True, criterion=mse, max_depth=8, max_features=sqr
t, min_samples_leaf=3, min_samples_split=8, n_estimators=3, total=
1.3s
[CV] bootstrap=True, criterion=mse, max_depth=8, max_features=sqrt
, min_samples_leaf=3, min_samples_split=8, n_estimators=4
[CV]  bootstrap=True, criterion=mse, max_depth=8, max_features=sqr
t, min_samples_leaf=3, min_samples_split=8, n_estimators=3, total=
```

```
1.8s
[CV]   bootstrap=True, criterion=mse, max_depth=8, max_features=sqr
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1.2s
[CV] bootstrap=True, criterion=mse, max_depth=8, max_features=sqrt
, min_samples_leaf=3, min_samples_split=8, n_estimators=5
[CV]   bootstrap=True, criterion=mse, max_depth=8, max_features=aut
o, min_samples_leaf=5, min_samples_split=12, n_estimators=4, total
=   11.8s
[CV] bootstrap=True, criterion=mse, max_depth=8, max_features=sqrt
, min_samples_leaf=3, min_samples_split=8, n_estimators=5
[CV]   bootstrap=True, criterion=mse, max_depth=8, max_features=sqr
t, min_samples_leaf=3, min_samples_split=8, n_estimators=3, total=
1.4s
[CV] bootstrap=True, criterion=mse, max_depth=8, max_features=sqrt
, min_samples_leaf=3, min_samples_split=8, n_estimators=5
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, min_samples_leaf=3, min_samples_split=8, n_estimators=5
[CV]   bootstrap=True, criterion=mse, max_depth=8, max_features=aut
o, min_samples_leaf=5, min_samples_split=10, n_estimators=8, total
=   21.9s
[CV]   bootstrap=True, criterion=mse, max_depth=8, max_features=sqr
t, min_samples_leaf=3, min_samples_split=8, n_estimators=3, total=
1.6s
[CV] bootstrap=True, criterion=mse, max_depth=8, max_features=sqrt
, min_samples_leaf=3, min_samples_split=8, n_estimators=5
[CV]   bootstrap=True, criterion=mse, max_depth=8, max_features=aut
o, min_samples_leaf=5, min_samples_split=12, n_estimators=4, total
=   12.2s
[CV] bootstrap=True, criterion=mse, max_depth=8, max_features=sqrt
, min_samples_leaf=3, min_samples_split=8, n_estimators=6
[CV] bootstrap=True, criterion=mse, max_depth=8, max_features=sqrt
, min_samples_leaf=3, min_samples_split=8, n_estimators=6
[CV]   bootstrap=True, criterion=mse, max_depth=8, max_features=aut
o, min_samples_leaf=5, min_samples_split=10, n_estimators=8, total
=   21.7s
[CV]   bootstrap=True, criterion=mse, max_depth=8, max_features=sqr
t, min_samples_leaf=3, min_samples_split=8, n_estimators=4, total=
1.8s
[CV] bootstrap=True, criterion=mse, max_depth=8, max_features=sqrt
, min_samples_leaf=3, min_samples_split=8, n_estimators=6
[CV]   bootstrap=True, criterion=mse, max_depth=8, max_features=aut
o, min_samples_leaf=5, min_samples_split=12, n_estimators=4, total
=   12.5s
[CV] bootstrap=True, criterion=mse, max_depth=8, max_features=sqrt
, min_samples_leaf=3, min_samples_split=8, n_estimators=6
[CV]   bootstrap=True, criterion=mse, max_depth=8, max_features=sqr
t, min_samples_leaf=3, min_samples_split=8, n_estimators=4, total=
1.8s
[CV] bootstrap=True, criterion=mse, max_depth=8, max_features=sqrt
, min_samples_leaf=3, min_samples_split=8, n_estimators=6
[CV] bootstrap=True, criterion=mse, max_depth=8, max_features=sqrt
, min_samples_leaf=3, min_samples_split=8, n_estimators=7
[CV]   bootstrap=True, criterion=mse, max_depth=8, max_features=sqr
```

```
t, min_samples_leaf=3, min_samples_split=8, n_estimators=4, total=
1.6s
[CV] bootstrap=True, criterion=mse, max_depth=8, max_features=sqrt
, min_samples_leaf=3, min_samples_split=8, n_estimators=7
[CV]  bootstrap=True, criterion=mse, max_depth=8, max_features=sqr
t, min_samples_leaf=3, min_samples_split=8, n_estimators=4, total=
1.6s
[CV] bootstrap=True, criterion=mse, max_depth=8, max_features=sqrt
, min_samples_leaf=3, min_samples_split=8, n_estimators=7
[CV]  bootstrap=True, criterion=mse, max_depth=8, max_features=sqr
t, min_samples_leaf=3, min_samples_split=8, n_estimators=4, total=
2.2s
[CV] bootstrap=True, criterion=mse, max_depth=8, max_features=sqrt
, min_samples_leaf=3, min_samples_split=8, n_estimators=7
[CV]  bootstrap=True, criterion=mse, max_depth=8, max_features=sqr
t, min_samples_leaf=3, min_samples_split=8, n_estimators=5, total=
2.0s
[CV]  bootstrap=True, criterion=mse, max_depth=8, max_features=aut
o, min_samples_leaf=5, min_samples_split=12, n_estimators=5, total
=  13.5s
[CV] bootstrap=True, criterion=mse, max_depth=8, max_features=sqrt
, min_samples_leaf=3, min_samples_split=8, n_estimators=7
[CV] bootstrap=True, criterion=mse, max_depth=8, max_features=sqrt
, min_samples_leaf=3, min_samples_split=8, n_estimators=8
[CV]  bootstrap=True, criterion=mse, max_depth=8, max_features=aut
o, min_samples_leaf=5, min_samples_split=10, n_estimators=8, total
=  23.0s
[CV] bootstrap=True, criterion=mse, max_depth=8, max_features=sqrt
, min_samples_leaf=3, min_samples_split=8, n_estimators=8
[CV]  bootstrap=True, criterion=mse, max_depth=8, max_features=sqr
t, min_samples_leaf=3, min_samples_split=8, n_estimators=5, total=
2.4s
[CV]  bootstrap=True, criterion=mse, max_depth=8, max_features=aut
o, min_samples_leaf=5, min_samples_split=10, n_estimators=8, total
=  23.7s
[CV]  bootstrap=True, criterion=mse, max_depth=8, max_features=sqr
t, min_samples_leaf=3, min_samples_split=8, n_estimators=5, total=
2.2s
[CV] bootstrap=True, criterion=mse, max_depth=8, max_features=sqrt
, min_samples_leaf=3, min_samples_split=8, n_estimators=8
[CV]  bootstrap=True, criterion=mse, max_depth=8, max_features=aut
o, min_samples_leaf=5, min_samples_split=12, n_estimators=5, total
=  13.6s
[CV]  bootstrap=True, criterion=mse, max_depth=8, max_features=aut
o, min_samples_leaf=5, min_samples_split=12, n_estimators=5, total
=  13.5s
[CV]  bootstrap=True, criterion=mse, max_depth=8, max_features=sqr
t, min_samples_leaf=3, min_samples_split=8, n_estimators=5, total=
2.2s
[CV] bootstrap=True, criterion=mse, max_depth=8, max_features=sqrt
, min_samples_leaf=3, min_samples_split=8, n_estimators=8
[CV]  bootstrap=True, criterion=mse, max_depth=8, max_features=sqr
t, min_samples_leaf=3, min_samples_split=8, n_estimators=5, total=
2.1s
```

```
[CV]  bootstrap=True, criterion=mse, max_depth=8, max_features=aut
o, min_samples_leaf=5, min_samples_split=12, n_estimators=5, total
=  13.8s
[CV] bootstrap=True, criterion=mse, max_depth=8, max_features=sqrt
, min_samples_leaf=3, min_samples_split=8, n_estimators=8
[CV] bootstrap=True, criterion=mse, max_depth=8, max_features=sqrt
, min_samples_leaf=3, min_samples_split=8, n_estimators=9
[CV] bootstrap=True, criterion=mse, max_depth=8, max_features=sqrt
, min_samples_leaf=3, min_samples_split=8, n_estimators=9
[CV] bootstrap=True, criterion=mse, max_depth=8, max_features=sqrt
, min_samples_leaf=3, min_samples_split=8, n_estimators=9
[CV]  bootstrap=True, criterion=mse, max_depth=8, max_features=sqr
t, min_samples_leaf=3, min_samples_split=8, n_estimators=6, total=
2.6s
[CV]  bootstrap=True, criterion=mse, max_depth=8, max_features=aut
o, min_samples_leaf=5, min_samples_split=12, n_estimators=5, total
=  14.6s
[CV] bootstrap=True, criterion=mse, max_depth=8, max_features=sqrt
, min_samples_leaf=3, min_samples_split=8, n_estimators=9
[CV] bootstrap=True, criterion=mse, max_depth=8, max_features=sqrt
, min_samples_leaf=3, min_samples_split=8, n_estimators=10
[CV]  bootstrap=True, criterion=mse, max_depth=8, max_features=sqr
t, min_samples_leaf=3, min_samples_split=8, n_estimators=6, total=
2.5s
[CV]  bootstrap=True, criterion=mse, max_depth=8, max_features=sqr
t, min_samples_leaf=3, min_samples_split=8, n_estimators=6, total=
2.6s
[CV]  bootstrap=True, criterion=mse, max_depth=8, max_features=sqr
t, min_samples_leaf=3, min_samples_split=8, n_estimators=6, total=
2.8s
[CV] bootstrap=True, criterion=mse, max_depth=8, max_features=sqrt
, min_samples_leaf=3, min_samples_split=8, n_estimators=10
[CV]  bootstrap=True, criterion=mse, max_depth=8, max_features=aut
o, min_samples_leaf=5, min_samples_split=10, n_estimators=9, total
=  23.9s
[CV] bootstrap=True, criterion=mse, max_depth=8, max_features=sqrt
, min_samples_leaf=3, min_samples_split=8, n_estimators=10
[CV] bootstrap=True, criterion=mse, max_depth=8, max_features=sqrt
, min_samples_leaf=3, min_samples_split=8, n_estimators=10
[CV] bootstrap=True, criterion=mse, max_depth=8, max_features=sqrt
, min_samples_leaf=3, min_samples_split=8, n_estimators=10
[CV]  bootstrap=True, criterion=mse, max_depth=8, max_features=sqr
t, min_samples_leaf=3, min_samples_split=8, n_estimators=6, total=
2.8s
[CV] bootstrap=True, criterion=mse, max_depth=8, max_features=sqrt
, min_samples_leaf=3, min_samples_split=10, n_estimators=2
[CV]  bootstrap=True, criterion=mse, max_depth=8, max_features=sqr
t, min_samples_leaf=3, min_samples_split=8, n_estimators=7, total=
2.7s
[CV] bootstrap=True, criterion=mse, max_depth=8, max_features=sqrt
, min_samples_leaf=3, min_samples_split=10, n_estimators=2
[CV]  bootstrap=True, criterion=mse, max_depth=8, max_features=sqr
```

```
t, min_samples_leaf=3, min_samples_split=8, n_estimators=7, total=
2.7s
[CV] bootstrap=True, criterion=mse, max_depth=8, max_features=sqrt
, min_samples_leaf=3, min_samples_split=10, n_estimators=2
[CV]  bootstrap=True, criterion=mse, max_depth=8, max_features=aut
o, min_samples_leaf=5, min_samples_split=10, n_estimators=9, total
=  24.1s
[CV] bootstrap=True, criterion=mse, max_depth=8, max_features=sqrt
, min_samples_leaf=3, min_samples_split=10, n_estimators=2
[CV] bootstrap=True, criterion=mse, max_depth=8, max_features=sqrt
, min_samples_leaf=3, min_samples_split=10, n_estimators=2
[CV]  bootstrap=True, criterion=mse, max_depth=8, max_features=aut
o, min_samples_leaf=5, min_samples_split=10, n_estimators=9, total
=  25.3s
[CV]  bootstrap=True, criterion=mse, max_depth=8, max_features=aut
o, min_samples_leaf=5, min_samples_split=10, n_estimators=9, total
=  25.1s
[CV] bootstrap=True, criterion=mse, max_depth=8, max_features=sqrt
, min_samples_leaf=3, min_samples_split=10, n_estimators=3
[CV]  bootstrap=True, criterion=mse, max_depth=8, max_features=sqr
t, min_samples_leaf=3, min_samples_split=8, n_estimators=7, total=
3.4s
[CV]  bootstrap=True, criterion=mse, max_depth=8, max_features=sqr
t, min_samples_leaf=3, min_samples_split=8, n_estimators=7, total=
2.9s
[CV] bootstrap=True, criterion=mse, max_depth=8, max_features=sqrt
, min_samples_leaf=3, min_samples_split=10, n_estimators=3
[CV]  bootstrap=True, criterion=mse, max_depth=8, max_features=sqr
t, min_samples_leaf=3, min_samples_split=10, n_estimators=2, total
=   0.8s
[CV] bootstrap=True, criterion=mse, max_depth=8, max_features=sqrt
, min_samples_leaf=3, min_samples_split=10, n_estimators=3
[CV]  bootstrap=True, criterion=mse, max_depth=8, max_features=sqr
t, min_samples_leaf=3, min_samples_split=8, n_estimators=7, total=
2.8s
[CV]  bootstrap=True, criterion=mse, max_depth=8, max_features=aut
o, min_samples_leaf=5, min_samples_split=10, n_estimators=9, total
=  25.1s
[CV] bootstrap=True, criterion=mse, max_depth=8, max_features=sqrt
, min_samples_leaf=3, min_samples_split=10, n_estimators=3
[CV]  bootstrap=True, criterion=mse, max_depth=8, max_features=sqr
t, min_samples_leaf=3, min_samples_split=10, n_estimators=2, total
=   0.9s
[CV] bootstrap=True, criterion=mse, max_depth=8, max_features=sqrt
, min_samples_leaf=3, min_samples_split=10, n_estimators=3
[CV]  bootstrap=True, criterion=mse, max_depth=8, max_features=sqr
t, min_samples_leaf=3, min_samples_split=10, n_estimators=2, total
=   0.9s
[CV]  bootstrap=True, criterion=mse, max_depth=8, max_features=sqr
t, min_samples_leaf=3, min_samples_split=10, n_estimators=2, total
=   0.8s
[CV] bootstrap=True, criterion=mse, max_depth=8, max_features=sqrt
, min_samples_leaf=3, min_samples_split=10, n_estimators=4
[CV]  bootstrap=True, criterion=mse, max_depth=8, max_features=aut
```

```
o, min_samples_leaf=5, min_samples_split=12, n_estimators=6, total
=  16.3s
[CV]  bootstrap=True, criterion=mse, max_depth=8, max_features=aut
o, min_samples_leaf=5, min_samples_split=12, n_estimators=6, total
=  16.0s
[CV]  bootstrap=True, criterion=mse, max_depth=8, max_features=sqr
t, min_samples_leaf=3, min_samples_split=10, n_estimators=2, total
=   0.8s
[CV] bootstrap=True, criterion=mse, max_depth=8, max_features=sqrt
, min_samples_leaf=3, min_samples_split=10, n_estimators=4
[CV]  bootstrap=True, criterion=mse, max_depth=8, max_features=sqr
t, min_samples_leaf=3, min_samples_split=8, n_estimators=8, total=
3.2s
[CV] bootstrap=True, criterion=mse, max_depth=8, max_features=sqrt
, min_samples_leaf=3, min_samples_split=10, n_estimators=4
[CV] bootstrap=True, criterion=mse, max_depth=8, max_features=sqrt
, min_samples_leaf=3, min_samples_split=10, n_estimators=4
[CV] bootstrap=True, criterion=mse, max_depth=8, max_features=sqrt
, min_samples_leaf=3, min_samples_split=10, n_estimators=4
[CV]  bootstrap=True, criterion=mse, max_depth=8, max_features=sqr
t, min_samples_leaf=3, min_samples_split=8, n_estimators=8, total=
3.3s
[CV]  bootstrap=True, criterion=mse, max_depth=8, max_features=aut
o, min_samples_leaf=5, min_samples_split=12, n_estimators=6, total
=  16.7s
[CV]  bootstrap=True, criterion=mse, max_depth=8, max_features=aut
o, min_samples_leaf=5, min_samples_split=12, n_estimators=6, total
=  16.5s
[CV]  bootstrap=True, criterion=mse, max_depth=8, max_features=sqr
t, min_samples_leaf=3, min_samples_split=8, n_estimators=8, total=
3.2s
[CV]  bootstrap=True, criterion=mse, max_depth=8, max_features=sqr
t, min_samples_leaf=3, min_samples_split=8, n_estimators=8, total=
3.3s
[CV] bootstrap=True, criterion=mse, max_depth=8, max_features=sqrt
, min_samples_leaf=3, min_samples_split=10, n_estimators=5
[CV]  bootstrap=True, criterion=mse, max_depth=8, max_features=sqr
t, min_samples_leaf=3, min_samples_split=10, n_estimators=3, total
=   1.3s
[CV] bootstrap=True, criterion=mse, max_depth=8, max_features=sqrt
, min_samples_leaf=3, min_samples_split=10, n_estimators=5
[CV]  bootstrap=True, criterion=mse, max_depth=8, max_features=sqr
t, min_samples_leaf=3, min_samples_split=10, n_estimators=3, total
=   1.2s
[CV]  bootstrap=True, criterion=mse, max_depth=8, max_features=sqr
t, min_samples_leaf=3, min_samples_split=8, n_estimators=8, total=
3.7s
[CV] bootstrap=True, criterion=mse, max_depth=8, max_features=sqrt
, min_samples_leaf=3, min_samples_split=10, n_estimators=5
[CV]  bootstrap=True, criterion=mse, max_depth=8, max_features=sqr
t, min_samples_leaf=3, min_samples_split=10, n_estimators=3, total
=   1.0s
[CV] bootstrap=True, criterion=mse, max_depth=8, max_features=sqrt
, min_samples_leaf=3, min_samples_split=10, n_estimators=5
```

```
[CV]  bootstrap=True, criterion=mse, max_depth=8, max_features=sqr
t, min_samples_leaf=3, min_samples_split=10, n_estimators=3, total
=   1.2s
[CV]  bootstrap=True, criterion=mse, max_depth=8, max_features=sqr
t, min_samples_leaf=3, min_samples_split=8, n_estimators=9, total=
3.5s
[CV]  bootstrap=True, criterion=mse, max_depth=8, max_features=sqr
t, min_samples_leaf=3, min_samples_split=8, n_estimators=9, total=
3.4s
[CV]  bootstrap=True, criterion=mse, max_depth=8, max_features=sqr
t, min_samples_leaf=3, min_samples_split=10, n_estimators=3, total
=   1.4s
[CV] bootstrap=True, criterion=mse, max_depth=8, max_features=sqrt
, min_samples_leaf=3, min_samples_split=10, n_estimators=5
[CV] bootstrap=True, criterion=mse, max_depth=8, max_features=sqrt
, min_samples_leaf=3, min_samples_split=10, n_estimators=6
[CV] bootstrap=True, criterion=mse, max_depth=8, max_features=sqrt
, min_samples_leaf=3, min_samples_split=10, n_estimators=6
[CV]  bootstrap=True, criterion=mse, max_depth=8, max_features=sqr
t, min_samples_leaf=3, min_samples_split=8, n_estimators=9, total=
3.5s
[CV] bootstrap=True, criterion=mse, max_depth=8, max_features=sqrt
, min_samples_leaf=3, min_samples_split=10, n_estimators=6
[CV]  bootstrap=True, criterion=mse, max_depth=8, max_features=sqr
t, min_samples_leaf=3, min_samples_split=10, n_estimators=4, total
=   1.4s
[CV]  bootstrap=True, criterion=mse, max_depth=8, max_features=aut
o, min_samples_leaf=5, min_samples_split=10, n_estimators=10, tota
l=  26.6s
[CV] bootstrap=True, criterion=mse, max_depth=8, max_features=sqrt
, min_samples_leaf=3, min_samples_split=10, n_estimators=6
[CV]  bootstrap=True, criterion=mse, max_depth=8, max_features=aut
o, min_samples_leaf=5, min_samples_split=10, n_estimators=10, tota
l=  26.5s
[CV]  bootstrap=True, criterion=mse, max_depth=8, max_features=sqr
t, min_samples_leaf=3, min_samples_split=8, n_estimators=9, total=
3.7s
[CV]  bootstrap=True, criterion=mse, max_depth=8, max_features=aut
o, min_samples_leaf=5, min_samples_split=12, n_estimators=6, total
=  17.0s
[CV] bootstrap=True, criterion=mse, max_depth=8, max_features=sqrt
, min_samples_leaf=3, min_samples_split=10, n_estimators=6
[CV] bootstrap=True, criterion=mse, max_depth=8, max_features=sqrt
, min_samples_leaf=3, min_samples_split=10, n_estimators=7
[CV]  bootstrap=True, criterion=mse, max_depth=8, max_features=sqr
t, min_samples_leaf=3, min_samples_split=10, n_estimators=4, total
=   1.7s
[CV] bootstrap=True, criterion=mse, max_depth=8, max_features=sqrt
, min_samples_leaf=3, min_samples_split=10, n_estimators=7
[CV]  bootstrap=True, criterion=mse, max_depth=8, max_features=sqr
t, min_samples_leaf=3, min_samples_split=10, n_estimators=4, total
=   1.5s
[CV]  bootstrap=True, criterion=mse, max_depth=8, max_features=sqr
t, min_samples_leaf=3, min_samples_split=10, n_estimators=4, total
```

```
=    1.5s
[CV]  bootstrap=True, criterion=mse, max_depth=8, max_features=sqr
t, min_samples_leaf=3, min_samples_split=10, n_estimators=4, total
=    1.3s
[CV] bootstrap=True, criterion=mse, max_depth=8, max_features=sqrt
, min_samples_leaf=3, min_samples_split=10, n_estimators=7
[CV]  bootstrap=True, criterion=mse, max_depth=8, max_features=sqr
t, min_samples_leaf=3, min_samples_split=8, n_estimators=10, total
=    3.6s
[CV] bootstrap=True, criterion=mse, max_depth=8, max_features=sqrt
, min_samples_leaf=3, min_samples_split=10, n_estimators=7
[CV]  bootstrap=True, criterion=mse, max_depth=8, max_features=sqr
t, min_samples_leaf=3, min_samples_split=8, n_estimators=10, total
=    4.0s
[CV]  bootstrap=True, criterion=mse, max_depth=8, max_features=sqr
t, min_samples_leaf=3, min_samples_split=8, n_estimators=9, total=
4.1s
[CV] bootstrap=True, criterion=mse, max_depth=8, max_features=sqrt
, min_samples_leaf=3, min_samples_split=10, n_estimators=7
[CV] bootstrap=True, criterion=mse, max_depth=8, max_features=sqrt
, min_samples_leaf=3, min_samples_split=10, n_estimators=8
[CV] bootstrap=True, criterion=mse, max_depth=8, max_features=sqrt
, min_samples_leaf=3, min_samples_split=10, n_estimators=8
[CV]  bootstrap=True, criterion=mse, max_depth=8, max_features=sqr
t, min_samples_leaf=3, min_samples_split=8, n_estimators=10, total
=    4.1s
[CV]  bootstrap=True, criterion=mse, max_depth=8, max_features=sqr
t, min_samples_leaf=3, min_samples_split=10, n_estimators=5, total
=    1.7s
[CV] bootstrap=True, criterion=mse, max_depth=8, max_features=sqrt
, min_samples_leaf=3, min_samples_split=10, n_estimators=8
[CV]  bootstrap=True, criterion=mse, max_depth=8, max_features=sqr
t, min_samples_leaf=3, min_samples_split=10, n_estimators=5, total
=    1.6s
[CV]  bootstrap=True, criterion=mse, max_depth=8, max_features=sqr
t, min_samples_leaf=3, min_samples_split=8, n_estimators=10, total
=    4.0s
[CV]  bootstrap=True, criterion=mse, max_depth=8, max_features=sqr
t, min_samples_leaf=3, min_samples_split=10, n_estimators=5, total
=    1.9s
[CV] bootstrap=True, criterion=mse, max_depth=8, max_features=sqrt
, min_samples_leaf=3, min_samples_split=10, n_estimators=8
[CV]  bootstrap=True, criterion=mse, max_depth=8, max_features=sqr
t, min_samples_leaf=3, min_samples_split=10, n_estimators=5, total
=    1.6s
[CV]  bootstrap=True, criterion=mse, max_depth=8, max_features=aut
o, min_samples_leaf=5, min_samples_split=10, n_estimators=10, tota
l=   27.5s
[CV] bootstrap=True, criterion=mse, max_depth=8, max_features=sqrt
, min_samples_leaf=3, min_samples_split=10, n_estimators=8
[CV]  bootstrap=True, criterion=mse, max_depth=8, max_features=sqr
t, min_samples_leaf=3, min_samples_split=8, n_estimators=10, total
=    4.2s
[CV] bootstrap=True, criterion=mse, max_depth=8, max_features=sqrt
```

```
, min_samples_leaf=3, min_samples_split=10, n_estimators=9
[CV] bootstrap=True, criterion=mse, max_depth=8, max_features=sqrt
, min_samples_leaf=3, min_samples_split=10, n_estimators=9
[CV] bootstrap=True, criterion=mse, max_depth=8, max_features=sqrt
, min_samples_leaf=3, min_samples_split=10, n_estimators=9
[CV]  bootstrap=True, criterion=mse, max_depth=8, max_features=sqr
t, min_samples_leaf=3, min_samples_split=10, n_estimators=5, total
=   2.0s
[CV]  bootstrap=True, criterion=mse, max_depth=8, max_features=sqr
t, min_samples_leaf=3, min_samples_split=10, n_estimators=6, total
=   1.8s
[CV] bootstrap=True, criterion=mse, max_depth=8, max_features=sqrt
, min_samples_leaf=3, min_samples_split=10, n_estimators=9
[CV]  bootstrap=True, criterion=mse, max_depth=8, max_features=sqr
t, min_samples_leaf=3, min_samples_split=10, n_estimators=6, total
=   2.0s
[CV] bootstrap=True, criterion=mse, max_depth=8, max_features=sqrt
, min_samples_leaf=3, min_samples_split=10, n_estimators=9
[CV]  bootstrap=True, criterion=mse, max_depth=8, max_features=aut
o, min_samples_leaf=5, min_samples_split=12, n_estimators=7, total
=  18.3s
[CV] bootstrap=True, criterion=mse, max_depth=8, max_features=sqrt
, min_samples_leaf=3, min_samples_split=10, n_estimators=10
[CV]  bootstrap=True, criterion=mse, max_depth=8, max_features=sqr
t, min_samples_leaf=3, min_samples_split=10, n_estimators=6, total
=   1.9s
[CV] bootstrap=True, criterion=mse, max_depth=8, max_features=sqrt
, min_samples_leaf=3, min_samples_split=10, n_estimators=10
[CV] bootstrap=True, criterion=mse, max_depth=8, max_features=sqrt
, min_samples_leaf=3, min_samples_split=10, n_estimators=10
[CV] bootstrap=True, criterion=mse, max_depth=8, max_features=sqrt
, min_samples_leaf=3, min_samples_split=10, n_estimators=10
[CV]  bootstrap=True, criterion=mse, max_depth=8, max_features=aut
o, min_samples_leaf=5, min_samples_split=12, n_estimators=7, total
=  17.6s
[CV] bootstrap=True, criterion=mse, max_depth=8, max_features=sqrt
, min_samples_leaf=3, min_samples_split=10, n_estimators=10
[CV]  bootstrap=True, criterion=mse, max_depth=8, max_features=aut
o, min_samples_leaf=5, min_samples_split=10, n_estimators=10, tota
l=  28.8s
[CV]  bootstrap=True, criterion=mse, max_depth=8, max_features=sqr
t, min_samples_leaf=3, min_samples_split=10, n_estimators=6, total
=   2.4s
[CV]  bootstrap=True, criterion=mse, max_depth=8, max_features=sqr
t, min_samples_leaf=3, min_samples_split=10, n_estimators=6, total
=   2.2s
[CV]  bootstrap=True, criterion=mse, max_depth=8, max_features=aut
o, min_samples_leaf=5, min_samples_split=12, n_estimators=7, total
=  19.3s
[CV] bootstrap=True, criterion=mse, max_depth=8, max_features=sqrt
, min_samples_leaf=3, min_samples_split=12, n_estimators=2
[CV]  bootstrap=True, criterion=mse, max_depth=8, max_features=sqr
t, min_samples_leaf=3, min_samples_split=10, n_estimators=7, total
=   2.0s
```

```
[CV] bootstrap=True, criterion=mse, max_depth=8, max_features=sqrt
, min_samples_leaf=3, min_samples_split=12, n_estimators=2
[CV] bootstrap=True, criterion=mse, max_depth=8, max_features=sqrt
, min_samples_leaf=3, min_samples_split=12, n_estimators=2
[CV]  bootstrap=True, criterion=mse, max_depth=8, max_features=aut
o, min_samples_leaf=5, min_samples_split=12, n_estimators=7, total
=  18.2s
[CV] bootstrap=True, criterion=mse, max_depth=8, max_features=sqrt
, min_samples_leaf=3, min_samples_split=12, n_estimators=2
[CV] bootstrap=True, criterion=mse, max_depth=8, max_features=sqrt
, min_samples_leaf=3, min_samples_split=12, n_estimators=2
[CV]  bootstrap=True, criterion=mse, max_depth=8, max_features=sqr
t, min_samples_leaf=3, min_samples_split=10, n_estimators=7, total
=   2.3s
[CV] bootstrap=True, criterion=mse, max_depth=8, max_features=sqrt
, min_samples_leaf=3, min_samples_split=12, n_estimators=3
[CV]  bootstrap=True, criterion=mse, max_depth=8, max_features=aut
o, min_samples_leaf=5, min_samples_split=10, n_estimators=10, tota
l=  29.0s
[CV]  bootstrap=True, criterion=mse, max_depth=8, max_features=sqr
t, min_samples_leaf=3, min_samples_split=10, n_estimators=7, total
=   2.3s
[CV] bootstrap=True, criterion=mse, max_depth=8, max_features=sqrt
, min_samples_leaf=3, min_samples_split=12, n_estimators=3
[CV]  bootstrap=True, criterion=mse, max_depth=8, max_features=sqr
t, min_samples_leaf=3, min_samples_split=10, n_estimators=7, total
=   2.7s
[CV]  bootstrap=True, criterion=mse, max_depth=8, max_features=sqr
t, min_samples_leaf=3, min_samples_split=10, n_estimators=7, total
=   2.8s
[CV]  bootstrap=True, criterion=mse, max_depth=8, max_features=sqr
t, min_samples_leaf=3, min_samples_split=10, n_estimators=8, total
=   2.4s
[CV] bootstrap=True, criterion=mse, max_depth=8, max_features=sqrt
, min_samples_leaf=3, min_samples_split=12, n_estimators=3
[CV]  bootstrap=True, criterion=mse, max_depth=8, max_features=sqr
t, min_samples_leaf=3, min_samples_split=12, n_estimators=2, total
=   0.6s
[CV] bootstrap=True, criterion=mse, max_depth=8, max_features=sqrt
, min_samples_leaf=3, min_samples_split=12, n_estimators=3
[CV]  bootstrap=True, criterion=mse, max_depth=8, max_features=sqr
t, min_samples_leaf=3, min_samples_split=12, n_estimators=2, total
=   0.8s
[CV] bootstrap=True, criterion=mse, max_depth=8, max_features=sqrt
, min_samples_leaf=3, min_samples_split=12, n_estimators=3
[CV]  bootstrap=True, criterion=mse, max_depth=8, max_features=sqr
t, min_samples_leaf=3, min_samples_split=12, n_estimators=2, total
=   0.7s
[CV]  bootstrap=True, criterion=mse, max_depth=8, max_features=sqr
t, min_samples_leaf=3, min_samples_split=10, n_estimators=8, total
=   2.4s
[CV]  bootstrap=True, criterion=mse, max_depth=8, max_features=sqr
t, min_samples_leaf=3, min_samples_split=12, n_estimators=2, total
=   0.7s
```

```
[CV] bootstrap=True, criterion=mse, max_depth=8, max_features=sqrt
, min_samples_leaf=3, min_samples_split=12, n_estimators=4
[CV]  bootstrap=True, criterion=mse, max_depth=8, max_features=sqr
t, min_samples_leaf=3, min_samples_split=12, n_estimators=2, total
=   0.6s
[CV] bootstrap=True, criterion=mse, max_depth=8, max_features=sqrt
, min_samples_leaf=3, min_samples_split=12, n_estimators=4
[CV]  bootstrap=True, criterion=mse, max_depth=8, max_features=sqr
t, min_samples_leaf=3, min_samples_split=10, n_estimators=8, total
=   2.5s
[CV] bootstrap=True, criterion=mse, max_depth=8, max_features=sqrt
, min_samples_leaf=3, min_samples_split=12, n_estimators=4
[CV] bootstrap=True, criterion=mse, max_depth=8, max_features=sqrt
, min_samples_leaf=3, min_samples_split=12, n_estimators=4
[CV]  bootstrap=True, criterion=mse, max_depth=8, max_features=sqr
t, min_samples_leaf=3, min_samples_split=12, n_estimators=3, total
=   0.9s
[CV] bootstrap=True, criterion=mse, max_depth=8, max_features=sqrt
, min_samples_leaf=3, min_samples_split=12, n_estimators=4
[CV]  bootstrap=True, criterion=mse, max_depth=8, max_features=aut
o, min_samples_leaf=5, min_samples_split=12, n_estimators=7, total
=  19.2s
[CV] bootstrap=True, criterion=mse, max_depth=8, max_features=sqrt
, min_samples_leaf=3, min_samples_split=12, n_estimators=5
[CV]  bootstrap=True, criterion=mse, max_depth=8, max_features=sqr
t, min_samples_leaf=3, min_samples_split=10, n_estimators=8, total
=   3.0s
[CV] bootstrap=True, criterion=mse, max_depth=8, max_features=sqrt
, min_samples_leaf=3, min_samples_split=12, n_estimators=5
[CV]  bootstrap=True, criterion=mse, max_depth=8, max_features=sqr
t, min_samples_leaf=3, min_samples_split=12, n_estimators=3, total
=   1.0s
[CV] bootstrap=True, criterion=mse, max_depth=8, max_features=sqrt
, min_samples_leaf=3, min_samples_split=12, n_estimators=5
[CV]  bootstrap=True, criterion=mse, max_depth=8, max_features=sqr
t, min_samples_leaf=3, min_samples_split=10, n_estimators=8, total
=   2.9s
[CV] bootstrap=True, criterion=mse, max_depth=8, max_features=sqrt
, min_samples_leaf=3, min_samples_split=12, n_estimators=5
[CV]  bootstrap=True, criterion=mse, max_depth=8, max_features=sqr
t, min_samples_leaf=3, min_samples_split=12, n_estimators=3, total
=   1.2s
[CV]  bootstrap=True, criterion=mse, max_depth=8, max_features=sqr
t, min_samples_leaf=3, min_samples_split=12, n_estimators=3, total
=   0.9s
[CV]  bootstrap=True, criterion=mse, max_depth=8, max_features=sqr
t, min_samples_leaf=3, min_samples_split=10, n_estimators=9, total
=   2.9s
[CV]  bootstrap=True, criterion=mse, max_depth=8, max_features=sqr
t, min_samples_leaf=3, min_samples_split=10, n_estimators=9, total
=   3.0s
[CV] bootstrap=True, criterion=mse, max_depth=8, max_features=sqrt
, min_samples_leaf=3, min_samples_split=12, n_estimators=5
[CV]  bootstrap=True, criterion=mse, max_depth=8, max_features=sqr
```

```
t, min_samples_leaf=3, min_samples_split=12, n_estimators=3, total
=   1.1s
[CV] bootstrap=True, criterion=mse, max_depth=8, max_features=sqrt
, min_samples_leaf=3, min_samples_split=12, n_estimators=6
[CV]  bootstrap=True, criterion=mse, max_depth=8, max_features=sqr
t, min_samples_leaf=3, min_samples_split=10, n_estimators=9, total
=   2.8s
[CV] bootstrap=True, criterion=mse, max_depth=8, max_features=sqrt
, min_samples_leaf=3, min_samples_split=12, n_estimators=6
[CV]  bootstrap=True, criterion=mse, max_depth=8, max_features=sqr
t, min_samples_leaf=3, min_samples_split=12, n_estimators=4, total
=   1.1s
[CV]  bootstrap=True, criterion=mse, max_depth=8, max_features=sqr
t, min_samples_leaf=3, min_samples_split=10, n_estimators=9, total
=   2.8s
[CV] bootstrap=True, criterion=mse, max_depth=8, max_features=sqrt
, min_samples_leaf=3, min_samples_split=12, n_estimators=6
[CV]  bootstrap=True, criterion=mse, max_depth=8, max_features=aut
o, min_samples_leaf=5, min_samples_split=12, n_estimators=8, total
=  19.6s
[CV] bootstrap=True, criterion=mse, max_depth=8, max_features=sqrt
, min_samples_leaf=3, min_samples_split=12, n_estimators=6
[CV]  bootstrap=True, criterion=mse, max_depth=8, max_features=sqr
t, min_samples_leaf=3, min_samples_split=10, n_estimators=9, total
=   3.2s
[CV]  bootstrap=True, criterion=mse, max_depth=8, max_features=sqr
t, min_samples_leaf=3, min_samples_split=12, n_estimators=4, total
=   1.1s
[CV]  bootstrap=True, criterion=mse, max_depth=8, max_features=sqr
t, min_samples_leaf=3, min_samples_split=10, n_estimators=10, tota
l=   2.9s
[CV] bootstrap=True, criterion=mse, max_depth=8, max_features=sqrt
, min_samples_leaf=3, min_samples_split=12, n_estimators=6
[CV]  bootstrap=True, criterion=mse, max_depth=8, max_features=sqr
t, min_samples_leaf=3, min_samples_split=10, n_estimators=10, tota
l=   3.0s
[CV]  bootstrap=True, criterion=mse, max_depth=8, max_features=sqr
t, min_samples_leaf=3, min_samples_split=12, n_estimators=4, total
=   1.3s
[CV]  bootstrap=True, criterion=mse, max_depth=8, max_features=sqr
t, min_samples_leaf=3, min_samples_split=12, n_estimators=4, total
=   1.4s
[CV] bootstrap=True, criterion=mse, max_depth=8, max_features=sqrt
, min_samples_leaf=3, min_samples_split=12, n_estimators=7
[CV] bootstrap=True, criterion=mse, max_depth=8, max_features=sqrt
, min_samples_leaf=3, min_samples_split=12, n_estimators=7
[CV]  bootstrap=True, criterion=mse, max_depth=8, max_features=sqr
t, min_samples_leaf=3, min_samples_split=12, n_estimators=4, total
=   1.2s
[CV] bootstrap=True, criterion=mse, max_depth=8, max_features=sqrt
, min_samples_leaf=3, min_samples_split=12, n_estimators=7
[CV]  bootstrap=True, criterion=mse, max_depth=8, max_features=sqr
t, min_samples_leaf=3, min_samples_split=10, n_estimators=10, tota
l=   3.2s
```

```
[CV] bootstrap=True, criterion=mse, max_depth=8, max_features=sqrt
, min_samples_leaf=3, min_samples_split=12, n_estimators=7
[CV]  bootstrap=True, criterion=mse, max_depth=8, max_features=aut
o, min_samples_leaf=5, min_samples_split=12, n_estimators=8, total
=  19.2s
[CV] bootstrap=True, criterion=mse, max_depth=8, max_features=sqrt
, min_samples_leaf=3, min_samples_split=12, n_estimators=7
[CV]  bootstrap=True, criterion=mse, max_depth=8, max_features=sqr
t, min_samples_leaf=3, min_samples_split=12, n_estimators=5, total
=   1.2s
[CV] bootstrap=True, criterion=mse, max_depth=8, max_features=sqrt
, min_samples_leaf=3, min_samples_split=12, n_estimators=8
[CV]  bootstrap=True, criterion=mse, max_depth=8, max_features=sqr
t, min_samples_leaf=3, min_samples_split=12, n_estimators=5, total
=   1.2s
[CV] bootstrap=True, criterion=mse, max_depth=8, max_features=sqrt
, min_samples_leaf=3, min_samples_split=12, n_estimators=8
[CV]  bootstrap=True, criterion=mse, max_depth=8, max_features=sqr
t, min_samples_leaf=3, min_samples_split=10, n_estimators=10, tota
l=   3.5s
[CV]  bootstrap=True, criterion=mse, max_depth=8, max_features=sqr
t, min_samples_leaf=3, min_samples_split=12, n_estimators=5, total
=   1.6s
[CV]  bootstrap=True, criterion=mse, max_depth=8, max_features=sqr
t, min_samples_leaf=3, min_samples_split=12, n_estimators=5, total
=   1.4s
[CV]  bootstrap=True, criterion=mse, max_depth=8, max_features=sqr
t, min_samples_leaf=3, min_samples_split=10, n_estimators=10, tota
l=   3.3s
[CV]  bootstrap=True, criterion=mse, max_depth=8, max_features=sqr
t, min_samples_leaf=3, min_samples_split=12, n_estimators=5, total
=   1.7s
[CV]  bootstrap=True, criterion=mse, max_depth=8, max_features=aut
o, min_samples_leaf=5, min_samples_split=12, n_estimators=8, total
=  20.0s
[CV] bootstrap=True, criterion=mse, max_depth=8, max_features=sqrt
, min_samples_leaf=3, min_samples_split=12, n_estimators=8
[CV]  bootstrap=True, criterion=mse, max_depth=8, max_features=aut
o, min_samples_leaf=5, min_samples_split=12, n_estimators=8, total
=  20.4s
[CV] bootstrap=True, criterion=mse, max_depth=8, max_features=sqrt
, min_samples_leaf=3, min_samples_split=12, n_estimators=8
[CV] bootstrap=True, criterion=mse, max_depth=8, max_features=sqrt
, min_samples_leaf=3, min_samples_split=12, n_estimators=8
[CV] bootstrap=True, criterion=mse, max_depth=8, max_features=sqrt
, min_samples_leaf=3, min_samples_split=12, n_estimators=9
[CV]  bootstrap=True, criterion=mse, max_depth=8, max_features=aut
o, min_samples_leaf=5, min_samples_split=12, n_estimators=8, total
=  20.2s
[CV] bootstrap=True, criterion=mse, max_depth=8, max_features=sqrt
, min_samples_leaf=3, min_samples_split=12, n_estimators=9
[CV]  bootstrap=True, criterion=mse, max_depth=8, max_features=sqr
t, min_samples_leaf=3, min_samples_split=12, n_estimators=6, total
=   1.4s
```

```
[CV] bootstrap=True, criterion=mse, max_depth=8, max_features=sqrt
, min_samples_leaf=3, min_samples_split=12, n_estimators=9
[CV]  bootstrap=True, criterion=mse, max_depth=8, max_features=sqr
t, min_samples_leaf=3, min_samples_split=12, n_estimators=6, total
=   1.7s
[CV] bootstrap=True, criterion=mse, max_depth=8, max_features=sqrt
, min_samples_leaf=3, min_samples_split=12, n_estimators=9
[CV] bootstrap=True, criterion=mse, max_depth=8, max_features=sqrt
, min_samples_leaf=3, min_samples_split=12, n_estimators=9
[CV]  bootstrap=True, criterion=mse, max_depth=8, max_features=sqr
t, min_samples_leaf=3, min_samples_split=12, n_estimators=6, total
=   1.8s
[CV]  bootstrap=True, criterion=mse, max_depth=8, max_features=sqr
t, min_samples_leaf=3, min_samples_split=12, n_estimators=6, total
=   1.7s
[CV] bootstrap=True, criterion=mse, max_depth=8, max_features=sqrt
, min_samples_leaf=3, min_samples_split=12, n_estimators=10
[CV]  bootstrap=True, criterion=mse, max_depth=8, max_features=sqr
t, min_samples_leaf=3, min_samples_split=12, n_estimators=6, total
=   1.6s
[CV] bootstrap=True, criterion=mse, max_depth=8, max_features=sqrt
, min_samples_leaf=3, min_samples_split=12, n_estimators=10
[CV] bootstrap=True, criterion=mse, max_depth=8, max_features=sqrt
, min_samples_leaf=3, min_samples_split=12, n_estimators=10
[CV]  bootstrap=True, criterion=mse, max_depth=8, max_features=sqr
t, min_samples_leaf=3, min_samples_split=12, n_estimators=7, total
=   1.7s
[CV]  bootstrap=True, criterion=mse, max_depth=8, max_features=sqr
t, min_samples_leaf=3, min_samples_split=12, n_estimators=7, total
=   1.6s
[CV] bootstrap=True, criterion=mse, max_depth=8, max_features=sqrt
, min_samples_leaf=3, min_samples_split=12, n_estimators=10
[CV] bootstrap=True, criterion=mse, max_depth=8, max_features=sqrt
, min_samples_leaf=3, min_samples_split=12, n_estimators=10
[CV]  bootstrap=True, criterion=mse, max_depth=8, max_features=sqr
t, min_samples_leaf=3, min_samples_split=12, n_estimators=7, total
=   1.6s
[CV] bootstrap=True, criterion=mse, max_depth=8, max_features=sqrt
, min_samples_leaf=4, min_samples_split=8, n_estimators=2
[CV]  bootstrap=True, criterion=mse, max_depth=8, max_features=sqr
t, min_samples_leaf=3, min_samples_split=12, n_estimators=7, total
=   1.8s
[CV] bootstrap=True, criterion=mse, max_depth=8, max_features=sqrt
, min_samples_leaf=4, min_samples_split=8, n_estimators=2
[CV]  bootstrap=True, criterion=mse, max_depth=8, max_features=sqr
t, min_samples_leaf=3, min_samples_split=12, n_estimators=7, total
=   1.7s
[CV] bootstrap=True, criterion=mse, max_depth=8, max_features=sqrt
, min_samples_leaf=4, min_samples_split=8, n_estimators=2
[CV] bootstrap=True, criterion=mse, max_depth=8, max_features=sqrt
, min_samples_leaf=4, min_samples_split=8, n_estimators=2
[CV] bootstrap=True, criterion=mse, max_depth=8, max_features=sqrt
, min_samples_leaf=4, min_samples_split=8, n_estimators=2
[CV]  bootstrap=True, criterion=mse, max_depth=8, max_features=sqr
```

```
t, min_samples_leaf=3, min_samples_split=12, n_estimators=8, total
=   1.9s
[CV] bootstrap=True, criterion=mse, max_depth=8, max_features=sqrt
, min_samples_leaf=4, min_samples_split=8, n_estimators=3
[CV]  bootstrap=True, criterion=mse, max_depth=8, max_features=sqr
t, min_samples_leaf=3, min_samples_split=12, n_estimators=8, total
=   1.8s
[CV]  bootstrap=True, criterion=mse, max_depth=8, max_features=sqr
t, min_samples_leaf=3, min_samples_split=12, n_estimators=8, total
=   1.9s
[CV]  bootstrap=True, criterion=mse, max_depth=8, max_features=aut
o, min_samples_leaf=5, min_samples_split=12, n_estimators=9, total
=  21.3s
[CV] bootstrap=True, criterion=mse, max_depth=8, max_features=sqrt
, min_samples_leaf=4, min_samples_split=8, n_estimators=3
[CV]  bootstrap=True, criterion=mse, max_depth=8, max_features=sqr
t, min_samples_leaf=4, min_samples_split=8, n_estimators=2, total=
0.5s
[CV]  bootstrap=True, criterion=mse, max_depth=8, max_features=sqr
t, min_samples_leaf=3, min_samples_split=12, n_estimators=8, total
=   1.9s
[CV] bootstrap=True, criterion=mse, max_depth=8, max_features=sqrt
, min_samples_leaf=4, min_samples_split=8, n_estimators=3
[CV]  bootstrap=True, criterion=mse, max_depth=8, max_features=sqr
t, min_samples_leaf=4, min_samples_split=8, n_estimators=2, total=
0.8s
[CV]  bootstrap=True, criterion=mse, max_depth=8, max_features=aut
o, min_samples_leaf=5, min_samples_split=12, n_estimators=9, total
=  21.1s
[CV]  bootstrap=True, criterion=mse, max_depth=8, max_features=sqr
t, min_samples_leaf=4, min_samples_split=8, n_estimators=2, total=
0.6s
[CV] bootstrap=True, criterion=mse, max_depth=8, max_features=sqrt
, min_samples_leaf=4, min_samples_split=8, n_estimators=3
[CV]  bootstrap=True, criterion=mse, max_depth=8, max_features=sqr
t, min_samples_leaf=4, min_samples_split=8, n_estimators=2, total=
0.5s
[CV]  bootstrap=True, criterion=mse, max_depth=8, max_features=sqr
t, min_samples_leaf=4, min_samples_split=8, n_estimators=2, total=
0.6s
[CV] bootstrap=True, criterion=mse, max_depth=8, max_features=sqrt
, min_samples_leaf=4, min_samples_split=8, n_estimators=3
[CV]  bootstrap=True, criterion=mse, max_depth=8, max_features=aut
o, min_samples_leaf=5, min_samples_split=12, n_estimators=9, total
=  21.6s
[CV]  bootstrap=True, criterion=mse, max_depth=8, max_features=sqr
t, min_samples_leaf=3, min_samples_split=12, n_estimators=8, total
=   2.1s
[CV] bootstrap=True, criterion=mse, max_depth=8, max_features=sqrt
, min_samples_leaf=4, min_samples_split=8, n_estimators=4
[CV] bootstrap=True, criterion=mse, max_depth=8, max_features=sqrt
, min_samples_leaf=4, min_samples_split=8, n_estimators=4
[CV]  bootstrap=True, criterion=mse, max_depth=8, max_features=sqr
t, min_samples_leaf=3, min_samples_split=12, n_estimators=9, total
```

```
=    2.2s
[CV]  bootstrap=True, criterion=mse, max_depth=8, max_features=aut
o, min_samples_leaf=5, min_samples_split=12, n_estimators=9, total
=   21.7s
[CV] bootstrap=True, criterion=mse, max_depth=8, max_features=sqrt
, min_samples_leaf=4, min_samples_split=8, n_estimators=4
[CV]  bootstrap=True, criterion=mse, max_depth=8, max_features=sqr
t, min_samples_leaf=3, min_samples_split=12, n_estimators=9, total
=    2.1s
[CV]  bootstrap=True, criterion=mse, max_depth=8, max_features=sqr
t, min_samples_leaf=4, min_samples_split=8, n_estimators=3, total=
0.8s
[CV]  bootstrap=True, criterion=mse, max_depth=8, max_features=sqr
t, min_samples_leaf=3, min_samples_split=12, n_estimators=9, total
=    2.1s
[CV] bootstrap=True, criterion=mse, max_depth=8, max_features=sqrt
, min_samples_leaf=4, min_samples_split=8, n_estimators=4
[CV]  bootstrap=True, criterion=mse, max_depth=8, max_features=sqr
t, min_samples_leaf=4, min_samples_split=8, n_estimators=3, total=
0.7s
[CV] bootstrap=True, criterion=mse, max_depth=8, max_features=sqrt
, min_samples_leaf=4, min_samples_split=8, n_estimators=4
[CV]  bootstrap=True, criterion=mse, max_depth=8, max_features=sqr
t, min_samples_leaf=3, min_samples_split=12, n_estimators=9, total
=    2.1s
[CV]  bootstrap=True, criterion=mse, max_depth=8, max_features=sqr
t, min_samples_leaf=4, min_samples_split=8, n_estimators=3, total=
0.7s
[CV]  bootstrap=True, criterion=mse, max_depth=8, max_features=sqr
t, min_samples_leaf=4, min_samples_split=8, n_estimators=3, total=
0.7s
[CV] bootstrap=True, criterion=mse, max_depth=8, max_features=sqrt
, min_samples_leaf=4, min_samples_split=8, n_estimators=5
[CV]  bootstrap=True, criterion=mse, max_depth=8, max_features=sqr
t, min_samples_leaf=3, min_samples_split=12, n_estimators=9, total
=    2.2s
[CV]  bootstrap=True, criterion=mse, max_depth=8, max_features=sqr
t, min_samples_leaf=4, min_samples_split=8, n_estimators=3, total=
0.7s
[CV]  bootstrap=True, criterion=mse, max_depth=8, max_features=aut
o, min_samples_leaf=5, min_samples_split=12, n_estimators=9, total
=   21.9s
[CV] bootstrap=True, criterion=mse, max_depth=8, max_features=sqrt
, min_samples_leaf=4, min_samples_split=8, n_estimators=5
[CV]  bootstrap=True, criterion=mse, max_depth=8, max_features=sqr
t, min_samples_leaf=3, min_samples_split=12, n_estimators=10, tota
l=    2.2s
[CV]  bootstrap=True, criterion=mse, max_depth=8, max_features=sqr
t, min_samples_leaf=3, min_samples_split=12, n_estimators=10, tota
l=    2.2s
[CV] bootstrap=True, criterion=mse, max_depth=8, max_features=sqrt
, min_samples_leaf=4, min_samples_split=8, n_estimators=5
[CV]  bootstrap=True, criterion=mse, max_depth=8, max_features=sqr
t, min_samples_leaf=4, min_samples_split=8, n_estimators=4, total=
```

```
0.9s
[CV] bootstrap=True, criterion=mse, max_depth=8, max_features=sqrt
, min_samples_leaf=4, min_samples_split=8, n_estimators=5
[CV]  bootstrap=True, criterion=mse, max_depth=8, max_features=sqr
t, min_samples_leaf=3, min_samples_split=12, n_estimators=10, tota
l=    2.3s
[CV]  bootstrap=True, criterion=mse, max_depth=8, max_features=aut
o, min_samples_leaf=5, min_samples_split=12, n_estimators=10, tota
l=   21.4s
[CV] bootstrap=True, criterion=mse, max_depth=8, max_features=sqrt
, min_samples_leaf=4, min_samples_split=8, n_estimators=5
[CV]  bootstrap=True, criterion=mse, max_depth=8, max_features=sqr
t, min_samples_leaf=3, min_samples_split=12, n_estimators=10, tota
l=    2.3s
[CV] bootstrap=True, criterion=mse, max_depth=8, max_features=sqrt
, min_samples_leaf=4, min_samples_split=8, n_estimators=6
[CV]  bootstrap=True, criterion=mse, max_depth=8, max_features=sqr
t, min_samples_leaf=4, min_samples_split=8, n_estimators=4, total=
1.0s
[CV]  bootstrap=True, criterion=mse, max_depth=8, max_features=sqr
t, min_samples_leaf=3, min_samples_split=12, n_estimators=10, tota
l=    2.3s
[CV]  bootstrap=True, criterion=mse, max_depth=8, max_features=sqr
t, min_samples_leaf=4, min_samples_split=8, n_estimators=4, total=
0.9s
[CV]  bootstrap=True, criterion=mse, max_depth=8, max_features=sqr
t, min_samples_leaf=4, min_samples_split=8, n_estimators=4, total=
0.8s
[CV] bootstrap=True, criterion=mse, max_depth=8, max_features=sqrt
, min_samples_leaf=4, min_samples_split=8, n_estimators=6
[CV]  bootstrap=True, criterion=mse, max_depth=8, max_features=sqr
t, min_samples_leaf=4, min_samples_split=8, n_estimators=4, total=
0.8s
[CV]  bootstrap=True, criterion=mse, max_depth=8, max_features=aut
o, min_samples_leaf=5, min_samples_split=12, n_estimators=10, tota
l=   21.8s
[CV] bootstrap=True, criterion=mse, max_depth=8, max_features=sqrt
, min_samples_leaf=4, min_samples_split=8, n_estimators=6
[CV] bootstrap=True, criterion=mse, max_depth=8, max_features=sqrt
, min_samples_leaf=4, min_samples_split=8, n_estimators=6
[CV]  bootstrap=True, criterion=mse, max_depth=8, max_features=aut
o, min_samples_leaf=5, min_samples_split=12, n_estimators=10, tota
l=   21.7s
[CV]  bootstrap=True, criterion=mse, max_depth=8, max_features=aut
o, min_samples_leaf=5, min_samples_split=12, n_estimators=10, tota
l=   21.4s
[CV] bootstrap=True, criterion=mse, max_depth=8, max_features=sqrt
, min_samples_leaf=4, min_samples_split=8, n_estimators=6
[CV] bootstrap=True, criterion=mse, max_depth=8, max_features=sqrt
, min_samples_leaf=4, min_samples_split=8, n_estimators=7
[CV] bootstrap=True, criterion=mse, max_depth=8, max_features=sqrt
, min_samples_leaf=4, min_samples_split=8, n_estimators=7
[CV]  bootstrap=True, criterion=mse, max_depth=8, max_features=sqr
t, min_samples_leaf=4, min_samples_split=8, n_estimators=5, total=
```

```
1.1s
[CV] bootstrap=True, criterion=mse, max_depth=8, max_features=sqrt
, min_samples_leaf=4, min_samples_split=8, n_estimators=7
[CV]  bootstrap=True, criterion=mse, max_depth=8, max_features=sqr
t, min_samples_leaf=4, min_samples_split=8, n_estimators=5, total=
1.0s
[CV] bootstrap=True, criterion=mse, max_depth=8, max_features=sqrt
, min_samples_leaf=4, min_samples_split=8, n_estimators=7
[CV]  bootstrap=True, criterion=mse, max_depth=8, max_features=sqr
t, min_samples_leaf=4, min_samples_split=8, n_estimators=5, total=
1.0s
[CV] bootstrap=True, criterion=mse, max_depth=8, max_features=sqrt
, min_samples_leaf=4, min_samples_split=8, n_estimators=7
[CV] bootstrap=True, criterion=mse, max_depth=8, max_features=sqrt
, min_samples_leaf=4, min_samples_split=8, n_estimators=8
[CV]  bootstrap=True, criterion=mse, max_depth=8, max_features=sqr
t, min_samples_leaf=4, min_samples_split=8, n_estimators=5, total=
1.1s
[CV] bootstrap=True, criterion=mse, max_depth=8, max_features=sqrt
, min_samples_leaf=4, min_samples_split=8, n_estimators=8
[CV]  bootstrap=True, criterion=mse, max_depth=8, max_features=sqr
t, min_samples_leaf=4, min_samples_split=8, n_estimators=5, total=
1.1s
[CV] bootstrap=True, criterion=mse, max_depth=8, max_features=sqrt
, min_samples_leaf=4, min_samples_split=8, n_estimators=8
[CV] bootstrap=True, criterion=mse, max_depth=8, max_features=sqrt
, min_samples_leaf=4, min_samples_split=8, n_estimators=8
[CV]  bootstrap=True, criterion=mse, max_depth=8, max_features=aut
o, min_samples_leaf=5, min_samples_split=12, n_estimators=10, tota
l=  23.5s
[CV] bootstrap=True, criterion=mse, max_depth=8, max_features=sqrt
, min_samples_leaf=4, min_samples_split=8, n_estimators=8
[CV]  bootstrap=True, criterion=mse, max_depth=8, max_features=sqr
t, min_samples_leaf=4, min_samples_split=8, n_estimators=6, total=
1.3s
[CV]  bootstrap=True, criterion=mse, max_depth=8, max_features=sqr
t, min_samples_leaf=4, min_samples_split=8, n_estimators=6, total=
1.2s
[CV] bootstrap=True, criterion=mse, max_depth=8, max_features=sqrt
, min_samples_leaf=4, min_samples_split=8, n_estimators=9
[CV]  bootstrap=True, criterion=mse, max_depth=8, max_features=sqr
t, min_samples_leaf=4, min_samples_split=8, n_estimators=6, total=
1.3s
[CV] bootstrap=True, criterion=mse, max_depth=8, max_features=sqrt
, min_samples_leaf=4, min_samples_split=8, n_estimators=9
[CV] bootstrap=True, criterion=mse, max_depth=8, max_features=sqrt
, min_samples_leaf=4, min_samples_split=8, n_estimators=9
[CV]  bootstrap=True, criterion=mse, max_depth=8, max_features=sqr
t, min_samples_leaf=4, min_samples_split=8, n_estimators=6, total=
1.4s
[CV]  bootstrap=True, criterion=mse, max_depth=8, max_features=sqr
t, min_samples_leaf=4, min_samples_split=8, n_estimators=6, total=
1.3s
[CV] bootstrap=True, criterion=mse, max_depth=8, max_features=sqrt
```

```
, min_samples_leaf=4, min_samples_split=8, n_estimators=9
[CV] bootstrap=True, criterion=mse, max_depth=8, max_features=sqrt
, min_samples_leaf=4, min_samples_split=8, n_estimators=9
[CV] bootstrap=True, criterion=mse, max_depth=8, max_features=sqrt
, min_samples_leaf=4, min_samples_split=8, n_estimators=10
[CV]  bootstrap=True, criterion=mse, max_depth=8, max_features=sqr
t, min_samples_leaf=4, min_samples_split=8, n_estimators=7, total=
1.5s
[CV] bootstrap=True, criterion=mse, max_depth=8, max_features=sqrt
, min_samples_leaf=4, min_samples_split=8, n_estimators=10
[CV]  bootstrap=True, criterion=mse, max_depth=8, max_features=sqr
t, min_samples_leaf=4, min_samples_split=8, n_estimators=7, total=
1.5s
[CV]  bootstrap=True, criterion=mse, max_depth=8, max_features=sqr
t, min_samples_leaf=4, min_samples_split=8, n_estimators=7, total=
1.4s
[CV] bootstrap=True, criterion=mse, max_depth=8, max_features=sqrt
, min_samples_leaf=4, min_samples_split=8, n_estimators=10
[CV]  bootstrap=True, criterion=mse, max_depth=8, max_features=sqr
t, min_samples_leaf=4, min_samples_split=8, n_estimators=7, total=
1.4s
[CV] bootstrap=True, criterion=mse, max_depth=8, max_features=sqrt
, min_samples_leaf=4, min_samples_split=8, n_estimators=10
[CV] bootstrap=True, criterion=mse, max_depth=8, max_features=sqrt
, min_samples_leaf=4, min_samples_split=8, n_estimators=10
[CV]  bootstrap=True, criterion=mse, max_depth=8, max_features=sqr
t, min_samples_leaf=4, min_samples_split=8, n_estimators=7, total=
1.6s
[CV] bootstrap=True, criterion=mse, max_depth=8, max_features=sqrt
, min_samples_leaf=4, min_samples_split=10, n_estimators=2
[CV]  bootstrap=True, criterion=mse, max_depth=8, max_features=sqr
t, min_samples_leaf=4, min_samples_split=8, n_estimators=8, total=
1.6s
[CV] bootstrap=True, criterion=mse, max_depth=8, max_features=sqrt
, min_samples_leaf=4, min_samples_split=10, n_estimators=2
[CV] bootstrap=True, criterion=mse, max_depth=8, max_features=sqrt
, min_samples_leaf=4, min_samples_split=10, n_estimators=2
[CV]  bootstrap=True, criterion=mse, max_depth=8, max_features=sqr
t, min_samples_leaf=4, min_samples_split=8, n_estimators=8, total=
1.7s
[CV] bootstrap=True, criterion=mse, max_depth=8, max_features=sqrt
, min_samples_leaf=4, min_samples_split=10, n_estimators=2
[CV]  bootstrap=True, criterion=mse, max_depth=8, max_features=sqr
t, min_samples_leaf=4, min_samples_split=8, n_estimators=8, total=
1.7s
[CV] bootstrap=True, criterion=mse, max_depth=8, max_features=sqrt
, min_samples_leaf=4, min_samples_split=10, n_estimators=2
[CV]  bootstrap=True, criterion=mse, max_depth=8, max_features=sqr
t, min_samples_leaf=4, min_samples_split=8, n_estimators=8, total=
1.8s
[CV]  bootstrap=True, criterion=mse, max_depth=8, max_features=sqr
t, min_samples_leaf=4, min_samples_split=8, n_estimators=8, total=
1.6s
[CV] bootstrap=True, criterion=mse, max_depth=8, max_features=sqrt
```

```
, min_samples_leaf=4, min_samples_split=10, n_estimators=3
[CV]  bootstrap=True, criterion=mse, max_depth=8, max_features=sqr
t, min_samples_leaf=4, min_samples_split=10, n_estimators=2, total
=   0.5s
[CV] bootstrap=True, criterion=mse, max_depth=8, max_features=sqrt
, min_samples_leaf=4, min_samples_split=10, n_estimators=3
[CV]  bootstrap=True, criterion=mse, max_depth=8, max_features=sqr
t, min_samples_leaf=4, min_samples_split=10, n_estimators=2, total
=   0.5s
[CV] bootstrap=True, criterion=mse, max_depth=8, max_features=sqrt
, min_samples_leaf=4, min_samples_split=10, n_estimators=3
[CV]  bootstrap=True, criterion=mse, max_depth=8, max_features=sqr
t, min_samples_leaf=4, min_samples_split=10, n_estimators=2, total
=   0.5s
[CV] bootstrap=True, criterion=mse, max_depth=8, max_features=sqrt
, min_samples_leaf=4, min_samples_split=10, n_estimators=3
[CV]  bootstrap=True, criterion=mse, max_depth=8, max_features=sqr
t, min_samples_leaf=4, min_samples_split=8, n_estimators=9, total=
1.8s
[CV]  bootstrap=True, criterion=mse, max_depth=8, max_features=sqr
t, min_samples_leaf=4, min_samples_split=10, n_estimators=2, total
=   0.5s
[CV] bootstrap=True, criterion=mse, max_depth=8, max_features=sqrt
, min_samples_leaf=4, min_samples_split=10, n_estimators=3
[CV]  bootstrap=True, criterion=mse, max_depth=8, max_features=sqr
t, min_samples_leaf=4, min_samples_split=10, n_estimators=2, total
=   0.5s
[CV]  bootstrap=True, criterion=mse, max_depth=8, max_features=sqr
t, min_samples_leaf=4, min_samples_split=8, n_estimators=9, total=
1.9s
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, min_samples_leaf=4, min_samples_split=10, n_estimators=4
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, min_samples_leaf=4, min_samples_split=10, n_estimators=4
[CV]  bootstrap=True, criterion=mse, max_depth=8, max_features=sqr
t, min_samples_leaf=4, min_samples_split=8, n_estimators=9, total=
1.9s
[CV] bootstrap=True, criterion=mse, max_depth=8, max_features=sqrt
, min_samples_leaf=4, min_samples_split=10, n_estimators=4
[CV]  bootstrap=True, criterion=mse, max_depth=8, max_features=sqr
t, min_samples_leaf=4, min_samples_split=10, n_estimators=3, total
=   0.7s
[CV]  bootstrap=True, criterion=mse, max_depth=8, max_features=sqr
t, min_samples_leaf=4, min_samples_split=8, n_estimators=9, total=
2.0s
[CV] bootstrap=True, criterion=mse, max_depth=8, max_features=sqrt
, min_samples_leaf=4, min_samples_split=10, n_estimators=4
[CV]  bootstrap=True, criterion=mse, max_depth=8, max_features=sqr
t, min_samples_leaf=4, min_samples_split=8, n_estimators=9, total=
1.9s
[CV]  bootstrap=True, criterion=mse, max_depth=8, max_features=sqr
t, min_samples_leaf=4, min_samples_split=10, n_estimators=3, total
=   0.7s
[CV] bootstrap=True, criterion=mse, max_depth=8, max_features=sqrt
```

```
, min_samples_leaf=4, min_samples_split=10, n_estimators=4
[CV]  bootstrap=True, criterion=mse, max_depth=8, max_features=sqr
t, min_samples_leaf=4, min_samples_split=10, n_estimators=3, total
=   0.7s
[CV] bootstrap=True, criterion=mse, max_depth=8, max_features=sqrt
, min_samples_leaf=4, min_samples_split=10, n_estimators=5
[CV]  bootstrap=True, criterion=mse, max_depth=8, max_features=sqr
t, min_samples_leaf=4, min_samples_split=10, n_estimators=3, total
=   0.7s
[CV]  bootstrap=True, criterion=mse, max_depth=8, max_features=sqr
t, min_samples_leaf=4, min_samples_split=10, n_estimators=3, total
=   0.6s
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[CV]  bootstrap=True, criterion=mse, max_depth=8, max_features=sqr
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=   2.1s
[CV]  bootstrap=True, criterion=mse, max_depth=8, max_features=sqr
t, min_samples_leaf=4, min_samples_split=8, n_estimators=10, total
=   2.0s
[CV] bootstrap=True, criterion=mse, max_depth=8, max_features=sqrt
, min_samples_leaf=4, min_samples_split=10, n_estimators=5
[CV] bootstrap=True, criterion=mse, max_depth=8, max_features=sqrt
, min_samples_leaf=4, min_samples_split=10, n_estimators=5
[CV]  bootstrap=True, criterion=mse, max_depth=8, max_features=sqr
t, min_samples_leaf=4, min_samples_split=10, n_estimators=4, total
=   0.9s
[CV]  bootstrap=True, criterion=mse, max_depth=8, max_features=sqr
t, min_samples_leaf=4, min_samples_split=8, n_estimators=10, total
=   2.2s
[CV]  bootstrap=True, criterion=mse, max_depth=8, max_features=sqr
t, min_samples_leaf=4, min_samples_split=8, n_estimators=10, total
=   2.1s
[CV] bootstrap=True, criterion=mse, max_depth=8, max_features=sqrt
, min_samples_leaf=4, min_samples_split=10, n_estimators=5
[CV]  bootstrap=True, criterion=mse, max_depth=8, max_features=sqr
t, min_samples_leaf=4, min_samples_split=10, n_estimators=4, total
=   0.9s
[CV]  bootstrap=True, criterion=mse, max_depth=8, max_features=sqr
t, min_samples_leaf=4, min_samples_split=10, n_estimators=4, total
=   0.8s
[CV] bootstrap=True, criterion=mse, max_depth=8, max_features=sqrt
, min_samples_leaf=4, min_samples_split=10, n_estimators=6
[CV]  bootstrap=True, criterion=mse, max_depth=8, max_features=sqr
t, min_samples_leaf=4, min_samples_split=8, n_estimators=10, total
=   2.1s
[CV] bootstrap=True, criterion=mse, max_depth=8, max_features=sqrt
, min_samples_leaf=4, min_samples_split=10, n_estimators=6
[CV]  bootstrap=True, criterion=mse, max_depth=8, max_features=sqr
t, min_samples_leaf=4, min_samples_split=10, n_estimators=4, total
=   0.8s
[CV]  bootstrap=True, criterion=mse, max_depth=8, max_features=sqr
t, min_samples_leaf=4, min_samples_split=10, n_estimators=4, total
=   0.9s
```

```
[CV] bootstrap=True, criterion=mse, max_depth=8, max_features=sqrt
, min_samples_leaf=4, min_samples_split=10, n_estimators=6
[CV] bootstrap=True, criterion=mse, max_depth=8, max_features=sqrt
, min_samples_leaf=4, min_samples_split=10, n_estimators=6
[CV] bootstrap=True, criterion=mse, max_depth=8, max_features=sqrt
, min_samples_leaf=4, min_samples_split=10, n_estimators=6
[CV]  bootstrap=True, criterion=mse, max_depth=8, max_features=sqr
t, min_samples_leaf=4, min_samples_split=10, n_estimators=5, total
=   1.1s
[CV] bootstrap=True, criterion=mse, max_depth=8, max_features=sqrt
, min_samples_leaf=4, min_samples_split=10, n_estimators=7
[CV]  bootstrap=True, criterion=mse, max_depth=8, max_features=sqr
t, min_samples_leaf=4, min_samples_split=10, n_estimators=5, total
=   1.0s
[CV] bootstrap=True, criterion=mse, max_depth=8, max_features=sqrt
, min_samples_leaf=4, min_samples_split=10, n_estimators=7
[CV] bootstrap=True, criterion=mse, max_depth=8, max_features=sqrt
, min_samples_leaf=4, min_samples_split=10, n_estimators=7
[CV]  bootstrap=True, criterion=mse, max_depth=8, max_features=sqr
t, min_samples_leaf=4, min_samples_split=10, n_estimators=5, total
=   1.0s
[CV]  bootstrap=True, criterion=mse, max_depth=8, max_features=sqr
t, min_samples_leaf=4, min_samples_split=10, n_estimators=5, total
=   1.0s
[CV] bootstrap=True, criterion=mse, max_depth=8, max_features=sqrt
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t, min_samples_leaf=4, min_samples_split=10, n_estimators=5, total
=   1.1s
[CV] bootstrap=True, criterion=mse, max_depth=8, max_features=sqrt
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, min_samples_leaf=4, min_samples_split=10, n_estimators=8
[CV] bootstrap=True, criterion=mse, max_depth=8, max_features=sqrt
, min_samples_leaf=4, min_samples_split=10, n_estimators=8
[CV]  bootstrap=True, criterion=mse, max_depth=8, max_features=sqr
t, min_samples_leaf=4, min_samples_split=10, n_estimators=6, total
=   1.3s
[CV] bootstrap=True, criterion=mse, max_depth=8, max_features=sqrt
, min_samples_leaf=4, min_samples_split=10, n_estimators=8
[CV]  bootstrap=True, criterion=mse, max_depth=8, max_features=sqr
t, min_samples_leaf=4, min_samples_split=10, n_estimators=6, total
=   1.3s
[CV]  bootstrap=True, criterion=mse, max_depth=8, max_features=sqr
t, min_samples_leaf=4, min_samples_split=10, n_estimators=6, total
=   1.2s
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, min_samples_leaf=4, min_samples_split=10, n_estimators=8
[CV] bootstrap=True, criterion=mse, max_depth=8, max_features=sqrt
, min_samples_leaf=4, min_samples_split=10, n_estimators=9
[CV]  bootstrap=True, criterion=mse, max_depth=8, max_features=sqr
t, min_samples_leaf=4, min_samples_split=10, n_estimators=6, total
```

```
=    1.3s
[CV] bootstrap=True, criterion=mse, max_depth=8, max_features=sqrt
, min_samples_leaf=4, min_samples_split=10, n_estimators=9
[CV] bootstrap=True, criterion=mse, max_depth=8, max_features=sqrt
, min_samples_leaf=4, min_samples_split=10, n_estimators=9
[CV]  bootstrap=True, criterion=mse, max_depth=8, max_features=sqr
t, min_samples_leaf=4, min_samples_split=10, n_estimators=6, total
=    1.3s
[CV] bootstrap=True, criterion=mse, max_depth=8, max_features=sqrt
, min_samples_leaf=4, min_samples_split=10, n_estimators=9
[CV] bootstrap=True, criterion=mse, max_depth=8, max_features=sqrt
, min_samples_leaf=4, min_samples_split=10, n_estimators=9
[CV] bootstrap=True, criterion=mse, max_depth=8, max_features=sqrt
, min_samples_leaf=4, min_samples_split=10, n_estimators=10
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=    1.4s
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[CV]  bootstrap=True, criterion=mse, max_depth=8, max_features=sqr
t, min_samples_leaf=4, min_samples_split=10, n_estimators=7, total
=    1.6s
[CV] bootstrap=True, criterion=mse, max_depth=8, max_features=sqrt
, min_samples_leaf=4, min_samples_split=10, n_estimators=10
[CV]  bootstrap=True, criterion=mse, max_depth=8, max_features=sqr
t, min_samples_leaf=4, min_samples_split=10, n_estimators=7, total
=    1.5s
[CV] bootstrap=True, criterion=mse, max_depth=8, max_features=sqrt
, min_samples_leaf=4, min_samples_split=10, n_estimators=10
[CV] bootstrap=True, criterion=mse, max_depth=8, max_features=sqrt
, min_samples_leaf=4, min_samples_split=10, n_estimators=10
[CV]  bootstrap=True, criterion=mse, max_depth=8, max_features=sqr
t, min_samples_leaf=4, min_samples_split=10, n_estimators=7, total
=    1.6s
[CV] bootstrap=True, criterion=mse, max_depth=8, max_features=sqrt
, min_samples_leaf=4, min_samples_split=12, n_estimators=2
[CV]  bootstrap=True, criterion=mse, max_depth=8, max_features=sqr
t, min_samples_leaf=4, min_samples_split=10, n_estimators=7, total
=    1.5s
[CV] bootstrap=True, criterion=mse, max_depth=8, max_features=sqrt
, min_samples_leaf=4, min_samples_split=12, n_estimators=2
[CV] bootstrap=True, criterion=mse, max_depth=8, max_features=sqrt
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, min_samples_leaf=4, min_samples_split=12, n_estimators=2
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, min_samples_leaf=4, min_samples_split=12, n_estimators=3
[CV]  bootstrap=True, criterion=mse, max_depth=8, max_features=sqr
t, min_samples_leaf=4, min_samples_split=12, n_estimators=2, total
=    0.5s
[CV]  bootstrap=True, criterion=mse, max_depth=8, max_features=sqr
t, min_samples_leaf=4, min_samples_split=10, n_estimators=8, total
```

```
=    1.9s
[CV]   bootstrap=True, criterion=mse, max_depth=8, max_features=sqr
t, min_samples_leaf=4, min_samples_split=10, n_estimators=8, total
=    1.7s
[CV]   bootstrap=True, criterion=mse, max_depth=8, max_features=sqr
t, min_samples_leaf=4, min_samples_split=10, n_estimators=8, total
=    1.8s
[CV] bootstrap=True, criterion=mse, max_depth=8, max_features=sqrt
, min_samples_leaf=4, min_samples_split=12, n_estimators=3
[CV]   bootstrap=True, criterion=mse, max_depth=8, max_features=sqr
t, min_samples_leaf=4, min_samples_split=12, n_estimators=2, total
=    0.5s
[CV]   bootstrap=True, criterion=mse, max_depth=8, max_features=sqr
t, min_samples_leaf=4, min_samples_split=10, n_estimators=8, total
=    1.7s
[CV] bootstrap=True, criterion=mse, max_depth=8, max_features=sqrt
, min_samples_leaf=4, min_samples_split=12, n_estimators=3
[CV]   bootstrap=True, criterion=mse, max_depth=8, max_features=sqr
t, min_samples_leaf=4, min_samples_split=12, n_estimators=2, total
=    0.5s
[CV]   bootstrap=True, criterion=mse, max_depth=8, max_features=sqr
t, min_samples_leaf=4, min_samples_split=10, n_estimators=8, total
=    1.8s
[CV] bootstrap=True, criterion=mse, max_depth=8, max_features=sqrt
, min_samples_leaf=4, min_samples_split=12, n_estimators=3
[CV]   bootstrap=True, criterion=mse, max_depth=8, max_features=sqr
t, min_samples_leaf=4, min_samples_split=12, n_estimators=2, total
=    0.5s
[CV]   bootstrap=True, criterion=mse, max_depth=8, max_features=sqr
t, min_samples_leaf=4, min_samples_split=12, n_estimators=2, total
=    0.5s
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, min_samples_leaf=4, min_samples_split=12, n_estimators=3
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, min_samples_leaf=4, min_samples_split=12, n_estimators=4
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t, min_samples_leaf=4, min_samples_split=10, n_estimators=9, total
=    2.0s
[CV] bootstrap=True, criterion=mse, max_depth=8, max_features=sqrt
, min_samples_leaf=4, min_samples_split=12, n_estimators=4
[CV]   bootstrap=True, criterion=mse, max_depth=8, max_features=sqr
t, min_samples_leaf=4, min_samples_split=10, n_estimators=9, total
=    1.9s
[CV]   bootstrap=True, criterion=mse, max_depth=8, max_features=sqr
t, min_samples_leaf=4, min_samples_split=12, n_estimators=3, total
=    0.6s
[CV] bootstrap=True, criterion=mse, max_depth=8, max_features=sqrt
, min_samples_leaf=4, min_samples_split=12, n_estimators=4
[CV]   bootstrap=True, criterion=mse, max_depth=8, max_features=sqr
t, min_samples_leaf=4, min_samples_split=10, n_estimators=9, total
=    1.8s
[CV]   bootstrap=True, criterion=mse, max_depth=8, max_features=sqr
t, min_samples_leaf=4, min_samples_split=10, n_estimators=9, total
=    2.0s
```

```
[CV]  bootstrap=True, criterion=mse, max_depth=8, max_features=sqr
t, min_samples_leaf=4, min_samples_split=12, n_estimators=3, total
=   0.6s
[CV] bootstrap=True, criterion=mse, max_depth=8, max_features=sqrt
, min_samples_leaf=4, min_samples_split=12, n_estimators=4
[CV] bootstrap=True, criterion=mse, max_depth=8, max_features=sqrt
, min_samples_leaf=4, min_samples_split=12, n_estimators=4
[CV]  bootstrap=True, criterion=mse, max_depth=8, max_features=sqr
t, min_samples_leaf=4, min_samples_split=12, n_estimators=3, total
=   0.7s
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[CV]  bootstrap=True, criterion=mse, max_depth=8, max_features=sqr
t, min_samples_leaf=4, min_samples_split=12, n_estimators=3, total
=   0.7s
[CV] bootstrap=True, criterion=mse, max_depth=8, max_features=sqrt
, min_samples_leaf=4, min_samples_split=12, n_estimators=5
[CV]  bootstrap=True, criterion=mse, max_depth=8, max_features=sqr
t, min_samples_leaf=4, min_samples_split=12, n_estimators=3, total
=   0.6s
[CV] bootstrap=True, criterion=mse, max_depth=8, max_features=sqrt
, min_samples_leaf=4, min_samples_split=12, n_estimators=5
[CV]  bootstrap=True, criterion=mse, max_depth=8, max_features=sqr
t, min_samples_leaf=4, min_samples_split=10, n_estimators=10, tota
l=   2.0s
[CV] bootstrap=True, criterion=mse, max_depth=8, max_features=sqrt
, min_samples_leaf=4, min_samples_split=12, n_estimators=5
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, min_samples_leaf=4, min_samples_split=12, n_estimators=5
[CV]  bootstrap=True, criterion=mse, max_depth=8, max_features=sqr
t, min_samples_leaf=4, min_samples_split=10, n_estimators=10, tota
l=   2.2s
[CV]  bootstrap=True, criterion=mse, max_depth=8, max_features=sqr
t, min_samples_leaf=4, min_samples_split=12, n_estimators=4, total
=   0.9s
[CV] bootstrap=True, criterion=mse, max_depth=8, max_features=sqrt
, min_samples_leaf=4, min_samples_split=12, n_estimators=6
[CV]  bootstrap=True, criterion=mse, max_depth=8, max_features=sqr
t, min_samples_leaf=4, min_samples_split=10, n_estimators=10, tota
l=   2.2s
[CV]  bootstrap=True, criterion=mse, max_depth=8, max_features=sqr
t, min_samples_leaf=4, min_samples_split=10, n_estimators=10, tota
l=   2.1s
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t, min_samples_leaf=4, min_samples_split=12, n_estimators=4, total
=   0.9s
[CV]  bootstrap=True, criterion=mse, max_depth=8, max_features=sqr
t, min_samples_leaf=4, min_samples_split=10, n_estimators=9, total
=   2.6s
[CV] bootstrap=True, criterion=mse, max_depth=8, max_features=sqrt
, min_samples_leaf=4, min_samples_split=12, n_estimators=6
[CV]  bootstrap=True, criterion=mse, max_depth=8, max_features=sqr
t, min_samples_leaf=4, min_samples_split=12, n_estimators=4, total
=   0.9s
```

```
[CV]   bootstrap=True, criterion=mse, max_depth=8, max_features=sqr
t, min_samples_leaf=4, min_samples_split=12, n_estimators=4, total
=   0.8s
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t, min_samples_leaf=4, min_samples_split=10, n_estimators=10, tota
l=   2.2s
[CV]   bootstrap=True, criterion=mse, max_depth=8, max_features=sqr
t, min_samples_leaf=4, min_samples_split=12, n_estimators=4, total
=   0.8s
[CV] bootstrap=True, criterion=mse, max_depth=8, max_features=sqrt
, min_samples_leaf=4, min_samples_split=12, n_estimators=6
[CV] bootstrap=True, criterion=mse, max_depth=8, max_features=sqrt
, min_samples_leaf=4, min_samples_split=12, n_estimators=6
[CV] bootstrap=True, criterion=mse, max_depth=8, max_features=sqrt
, min_samples_leaf=4, min_samples_split=12, n_estimators=7
[CV] bootstrap=True, criterion=mse, max_depth=8, max_features=sqrt
, min_samples_leaf=4, min_samples_split=12, n_estimators=7
[CV]   bootstrap=True, criterion=mse, max_depth=8, max_features=sqr
t, min_samples_leaf=4, min_samples_split=12, n_estimators=5, total
=   1.1s
[CV] bootstrap=True, criterion=mse, max_depth=8, max_features=sqrt
, min_samples_leaf=4, min_samples_split=12, n_estimators=7
[CV]   bootstrap=True, criterion=mse, max_depth=8, max_features=sqr
t, min_samples_leaf=4, min_samples_split=12, n_estimators=5, total
=   1.1s
[CV] bootstrap=True, criterion=mse, max_depth=8, max_features=sqrt
, min_samples_leaf=4, min_samples_split=12, n_estimators=7
[CV]   bootstrap=True, criterion=mse, max_depth=8, max_features=sqr
t, min_samples_leaf=4, min_samples_split=12, n_estimators=5, total
=   1.1s
[CV]   bootstrap=True, criterion=mse, max_depth=8, max_features=sqr
t, min_samples_leaf=4, min_samples_split=12, n_estimators=5, total
=   1.0s
[CV] bootstrap=True, criterion=mse, max_depth=8, max_features=sqrt
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[CV]   bootstrap=True, criterion=mse, max_depth=8, max_features=sqr
t, min_samples_leaf=4, min_samples_split=12, n_estimators=5, total
=   1.0s
[CV] bootstrap=True, criterion=mse, max_depth=8, max_features=sqrt
, min_samples_leaf=4, min_samples_split=12, n_estimators=8
[CV] bootstrap=True, criterion=mse, max_depth=8, max_features=sqrt
, min_samples_leaf=4, min_samples_split=12, n_estimators=8
[CV] bootstrap=True, criterion=mse, max_depth=8, max_features=sqrt
, min_samples_leaf=4, min_samples_split=12, n_estimators=8
[CV]   bootstrap=True, criterion=mse, max_depth=8, max_features=sqr
t, min_samples_leaf=4, min_samples_split=12, n_estimators=6, total
=   1.2s
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, min_samples_leaf=4, min_samples_split=12, n_estimators=8
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t, min_samples_leaf=4, min_samples_split=12, n_estimators=6, total
=   1.2s
```

```
[CV] bootstrap=True, criterion=mse, max_depth=8, max_features=sqrt
, min_samples_leaf=4, min_samples_split=12, n_estimators=8
[CV]  bootstrap=True, criterion=mse, max_depth=8, max_features=sqr
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=   1.3s
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[CV]  bootstrap=True, criterion=mse, max_depth=8, max_features=sqr
t, min_samples_leaf=4, min_samples_split=12, n_estimators=6, total
=   1.2s
[CV] bootstrap=True, criterion=mse, max_depth=8, max_features=sqrt
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=   1.3s
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=   1.4s
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=   1.4s
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=   1.4s
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=   1.4s
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=   1.5s
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, min_samples_leaf=5, min_samples_split=8, n_estimators=2
[CV]  bootstrap=True, criterion=mse, max_depth=8, max_features=sqr
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```

```
=    1.7s
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, min_samples_leaf=5, min_samples_split=8, n_estimators=2
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t, min_samples_leaf=4, min_samples_split=12, n_estimators=8, total
=    1.9s
[CV]  bootstrap=True, criterion=mse, max_depth=8, max_features=sqr
t, min_samples_leaf=4, min_samples_split=12, n_estimators=8, total
=    1.7s
[CV]  bootstrap=True, criterion=mse, max_depth=8, max_features=sqr
t, min_samples_leaf=5, min_samples_split=8, n_estimators=2, total=
0.4s
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=    1.6s
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t, min_samples_leaf=4, min_samples_split=12, n_estimators=8, total
=    1.7s
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0.5s
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0.6s
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0.4s
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t, min_samples_leaf=5, min_samples_split=8, n_estimators=2, total=
0.6s
[CV]  bootstrap=True, criterion=mse, max_depth=8, max_features=sqr
t, min_samples_leaf=4, min_samples_split=12, n_estimators=9, total
=    1.9s
[CV] bootstrap=True, criterion=mse, max_depth=8, max_features=sqrt
, min_samples_leaf=5, min_samples_split=8, n_estimators=4
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, min_samples_leaf=5, min_samples_split=8, n_estimators=4
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t, min_samples_leaf=4, min_samples_split=12, n_estimators=9, total
=    1.9s
[CV] bootstrap=True, criterion=mse, max_depth=8, max_features=sqrt
, min_samples_leaf=5, min_samples_split=8, n_estimators=4
```

```
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0.7s
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t, min_samples_leaf=4, min_samples_split=12, n_estimators=9, total
=   2.0s
[CV]  bootstrap=True, criterion=mse, max_depth=8, max_features=sqr
t, min_samples_leaf=4, min_samples_split=12, n_estimators=9, total
=   1.9s
[CV] bootstrap=True, criterion=mse, max_depth=8, max_features=sqrt
, min_samples_leaf=5, min_samples_split=8, n_estimators=4
[CV]  bootstrap=True, criterion=mse, max_depth=8, max_features=sqr
t, min_samples_leaf=5, min_samples_split=8, n_estimators=3, total=
0.7s
[CV]  bootstrap=True, criterion=mse, max_depth=8, max_features=sqr
t, min_samples_leaf=5, min_samples_split=8, n_estimators=3, total=
0.6s
[CV]  bootstrap=True, criterion=mse, max_depth=8, max_features=sqr
t, min_samples_leaf=5, min_samples_split=8, n_estimators=3, total=
0.7s
[CV] bootstrap=True, criterion=mse, max_depth=8, max_features=sqrt
, min_samples_leaf=5, min_samples_split=8, n_estimators=5
[CV]  bootstrap=True, criterion=mse, max_depth=8, max_features=sqr
t, min_samples_leaf=4, min_samples_split=12, n_estimators=9, total
=   2.1s
[CV] bootstrap=True, criterion=mse, max_depth=8, max_features=sqrt
, min_samples_leaf=5, min_samples_split=8, n_estimators=5
[CV]  bootstrap=True, criterion=mse, max_depth=8, max_features=sqr
t, min_samples_leaf=5, min_samples_split=8, n_estimators=3, total=
0.6s
[CV] bootstrap=True, criterion=mse, max_depth=8, max_features=sqrt
, min_samples_leaf=5, min_samples_split=8, n_estimators=5
[CV] bootstrap=True, criterion=mse, max_depth=8, max_features=sqrt
, min_samples_leaf=5, min_samples_split=8, n_estimators=5
[CV]  bootstrap=True, criterion=mse, max_depth=8, max_features=sqr
t, min_samples_leaf=4, min_samples_split=12, n_estimators=10, tota
l=   2.0s
[CV]  bootstrap=True, criterion=mse, max_depth=8, max_features=sqr
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l=   2.2s
[CV]  bootstrap=True, criterion=mse, max_depth=8, max_features=sqr
t, min_samples_leaf=4, min_samples_split=12, n_estimators=10, tota
l=   2.2s
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, min_samples_leaf=5, min_samples_split=8, n_estimators=5
[CV]  bootstrap=True, criterion=mse, max_depth=8, max_features=sqr
t, min_samples_leaf=5, min_samples_split=8, n_estimators=4, total=
0.9s
[CV]  bootstrap=True, criterion=mse, max_depth=8, max_features=sqr
t, min_samples_leaf=4, min_samples_split=12, n_estimators=10, tota
l=   2.0s
[CV] bootstrap=True, criterion=mse, max_depth=8, max_features=sqrt
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, min_samples_leaf=5, min_samples_split=8, n_estimators=6
[CV] bootstrap=True, criterion=mse, max_depth=8, max_features=sqrt
, min_samples_leaf=5, min_samples_split=8, n_estimators=6
[CV] bootstrap=True, criterion=mse, max_depth=8, max_features=sqr
t, min_samples_leaf=5, min_samples_split=8, n_estimators=4, total=
0.9s
[CV] bootstrap=True, criterion=mse, max_depth=8, max_features=sqr
t, min_samples_leaf=5, min_samples_split=8, n_estimators=4, total=
0.9s
[CV] bootstrap=True, criterion=mse, max_depth=8, max_features=sqrt
, min_samples_leaf=5, min_samples_split=8, n_estimators=6
[CV] bootstrap=True, criterion=mse, max_depth=8, max_features=sqr
t, min_samples_leaf=4, min_samples_split=12, n_estimators=10, tota
l=   2.2s
[CV] bootstrap=True, criterion=mse, max_depth=8, max_features=sqrt
, min_samples_leaf=5, min_samples_split=8, n_estimators=6
[CV] bootstrap=True, criterion=mse, max_depth=8, max_features=sqr
t, min_samples_leaf=5, min_samples_split=8, n_estimators=4, total=
1.0s
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t, min_samples_leaf=5, min_samples_split=8, n_estimators=4, total=
0.9s
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1.1s
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1.0s
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1.1s
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1.0s
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[CV] bootstrap=True, criterion=mse, max_depth=8, max_features=sqrt

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, min_samples_leaf=5, min_samples_split=8, n_estimators=8
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, min_samples_leaf=5, min_samples_split=8, n_estimators=8
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, min_samples_leaf=5, min_samples_split=8, n_estimators=8
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t, min_samples_leaf=5, min_samples_split=8, n_estimators=6, total=
1.3s
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, min_samples_leaf=5, min_samples_split=8, n_estimators=9
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t, min_samples_leaf=5, min_samples_split=8, n_estimators=6, total=
1.3s
[CV] bootstrap=True, criterion=mse, max_depth=8, max_features=sqrt
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[CV]  bootstrap=True, criterion=mse, max_depth=8, max_features=sqr
t, min_samples_leaf=5, min_samples_split=8, n_estimators=6, total=
1.3s
[CV] bootstrap=True, criterion=mse, max_depth=8, max_features=sqrt
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t, min_samples_leaf=5, min_samples_split=8, n_estimators=6, total=
1.3s
[CV] bootstrap=True, criterion=mse, max_depth=8, max_features=sqrt
, min_samples_leaf=5, min_samples_split=8, n_estimators=9
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1.4s
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, min_samples_leaf=5, min_samples_split=8, n_estimators=10
[CV]  bootstrap=True, criterion=mse, max_depth=8, max_features=sqr
t, min_samples_leaf=5, min_samples_split=8, n_estimators=7, total=
1.5s
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[CV]  bootstrap=True, criterion=mse, max_depth=8, max_features=sqr
t, min_samples_leaf=5, min_samples_split=8, n_estimators=7, total=
1.5s
[CV]  bootstrap=True, criterion=mse, max_depth=8, max_features=sqr
t, min_samples_leaf=5, min_samples_split=8, n_estimators=7, total=
1.4s
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, min_samples_leaf=5, min_samples_split=8, n_estimators=10
[CV]  bootstrap=True, criterion=mse, max_depth=8, max_features=sqr
t, min_samples_leaf=5, min_samples_split=8, n_estimators=7, total=
1.5s
[CV] bootstrap=True, criterion=mse, max_depth=8, max_features=sqrt
, min_samples_leaf=5, min_samples_split=8, n_estimators=10
[CV]  bootstrap=True, criterion=mse, max_depth=8, max_features=sqr
t, min_samples_leaf=5, min_samples_split=8, n_estimators=7, total=
```

```
1.5s
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t, min_samples_leaf=5, min_samples_split=8, n_estimators=8, total=
1.7s
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[CV]  bootstrap=True, criterion=mse, max_depth=8, max_features=sqr
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1.8s
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t, min_samples_leaf=5, min_samples_split=10, n_estimators=2, total
=   0.5s
[CV] bootstrap=True, criterion=mse, max_depth=8, max_features=sqrt
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t, min_samples_leaf=5, min_samples_split=8, n_estimators=8, total=
1.7s
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=   0.5s
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t, min_samples_leaf=5, min_samples_split=10, n_estimators=2, total
=   0.5s
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1.7s
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t, min_samples_leaf=5, min_samples_split=10, n_estimators=2, total
=   0.5s
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=   0.5s
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[CV] bootstrap=True, criterion=mse, max_depth=8, max_features=sqrt
```

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, min_samples_leaf=5, min_samples_split=10, n_estimators=4
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2.0s
[CV]  bootstrap=True, criterion=mse, max_depth=8, max_features=sqr
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1.9s
[CV]  bootstrap=True, criterion=mse, max_depth=8, max_features=sqr
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1.9s
[CV] bootstrap=True, criterion=mse, max_depth=8, max_features=sqrt
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[CV] bootstrap=True, criterion=mse, max_depth=8, max_features=sqrt
, min_samples_leaf=5, min_samples_split=10, n_estimators=4
[CV]  bootstrap=True, criterion=mse, max_depth=8, max_features=sqr
t, min_samples_leaf=5, min_samples_split=10, n_estimators=3, total
=   0.7s
[CV]  bootstrap=True, criterion=mse, max_depth=8, max_features=sqr
t, min_samples_leaf=5, min_samples_split=10, n_estimators=3, total
=   0.7s
[CV]  bootstrap=True, criterion=mse, max_depth=8, max_features=sqr
t, min_samples_leaf=5, min_samples_split=8, n_estimators=9, total=
1.9s
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[CV]  bootstrap=True, criterion=mse, max_depth=8, max_features=sqr
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=   0.7s
[CV]  bootstrap=True, criterion=mse, max_depth=8, max_features=sqr
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=   0.7s
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=   0.6s
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2.1s
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, min_samples_leaf=5, min_samples_split=10, n_estimators=5
[CV]  bootstrap=True, criterion=mse, max_depth=8, max_features=sqr
t, min_samples_leaf=5, min_samples_split=8, n_estimators=10, total
=   2.1s
[CV]  bootstrap=True, criterion=mse, max_depth=8, max_features=sqr
t, min_samples_leaf=5, min_samples_split=8, n_estimators=10, total
=   2.0s
[CV] bootstrap=True, criterion=mse, max_depth=8, max_features=sqrt
, min_samples_leaf=5, min_samples_split=10, n_estimators=5
[CV]  bootstrap=True, criterion=mse, max_depth=8, max_features=sqr
t, min_samples_leaf=5, min_samples_split=8, n_estimators=10, total
=   2.1s
```

```
[CV] bootstrap=True, criterion=mse, max_depth=8, max_features=sqrt
, min_samples_leaf=5, min_samples_split=10, n_estimators=5
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=    0.9s
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=    0.9s
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=    0.9s
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=    2.1s
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=    0.9s
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=    0.9s
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=    1.1s
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=    1.0s
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=    1.0s
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t, min_samples_leaf=5, min_samples_split=10, n_estimators=5, total
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```
=    1.0s
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=    1.1s
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=    1.2s
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, min_samples_leaf=5, min_samples_split=10, n_estimators=9
[CV] bootstrap=True, criterion=mse, max_depth=8, max_features=sqrt
, min_samples_leaf=5, min_samples_split=10, n_estimators=10
[CV]  bootstrap=True, criterion=mse, max_depth=8, max_features=sqr
t, min_samples_leaf=5, min_samples_split=10, n_estimators=7, total
=    1.5s
[CV]  bootstrap=True, criterion=mse, max_depth=8, max_features=sqr
t, min_samples_leaf=5, min_samples_split=10, n_estimators=7, total
=    1.6s
[CV] bootstrap=True, criterion=mse, max_depth=8, max_features=sqrt
, min_samples_leaf=5, min_samples_split=10, n_estimators=10
[CV] bootstrap=True, criterion=mse, max_depth=8, max_features=sqrt
, min_samples_leaf=5, min_samples_split=10, n_estimators=10
[CV] bootstrap=True, criterion=mse, max_depth=8, max_features=sqrt
, min_samples_leaf=5, min_samples_split=10, n_estimators=10
[CV]  bootstrap=True, criterion=mse, max_depth=8, max_features=sqr
```

```
t, min_samples_leaf=5, min_samples_split=10, n_estimators=7, total
=   1.6s
[CV]  bootstrap=True, criterion=mse, max_depth=8, max_features=sqr
t, min_samples_leaf=5, min_samples_split=10, n_estimators=7, total
=   1.6s
[CV]  bootstrap=True, criterion=mse, max_depth=8, max_features=sqr
t, min_samples_leaf=5, min_samples_split=10, n_estimators=7, total
=   1.5s
[CV] bootstrap=True, criterion=mse, max_depth=8, max_features=sqrt
, min_samples_leaf=5, min_samples_split=10, n_estimators=10
[CV] bootstrap=True, criterion=mse, max_depth=8, max_features=sqrt
, min_samples_leaf=5, min_samples_split=12, n_estimators=2
[CV] bootstrap=True, criterion=mse, max_depth=8, max_features=sqrt
, min_samples_leaf=5, min_samples_split=12, n_estimators=2
[CV]  bootstrap=True, criterion=mse, max_depth=8, max_features=sqr
t, min_samples_leaf=5, min_samples_split=10, n_estimators=8, total
=   1.6s
[CV] bootstrap=True, criterion=mse, max_depth=8, max_features=sqrt
, min_samples_leaf=5, min_samples_split=12, n_estimators=2
[CV]  bootstrap=True, criterion=mse, max_depth=8, max_features=sqr
t, min_samples_leaf=5, min_samples_split=10, n_estimators=8, total
=   1.7s
[CV] bootstrap=True, criterion=mse, max_depth=8, max_features=sqrt
, min_samples_leaf=5, min_samples_split=12, n_estimators=2
[CV]  bootstrap=True, criterion=mse, max_depth=8, max_features=sqr
t, min_samples_leaf=5, min_samples_split=10, n_estimators=8, total
=   1.7s
[CV] bootstrap=True, criterion=mse, max_depth=8, max_features=sqrt
, min_samples_leaf=5, min_samples_split=12, n_estimators=2
[CV]  bootstrap=True, criterion=mse, max_depth=8, max_features=sqr
t, min_samples_leaf=5, min_samples_split=10, n_estimators=8, total
=   1.7s
[CV]  bootstrap=True, criterion=mse, max_depth=8, max_features=sqr
t, min_samples_leaf=5, min_samples_split=10, n_estimators=8, total
=   1.6s
[CV] bootstrap=True, criterion=mse, max_depth=8, max_features=sqrt
, min_samples_leaf=5, min_samples_split=12, n_estimators=3
[CV]  bootstrap=True, criterion=mse, max_depth=8, max_features=sqr
t, min_samples_leaf=5, min_samples_split=12, n_estimators=2, total
=   0.5s
[CV]  bootstrap=True, criterion=mse, max_depth=8, max_features=sqr
t, min_samples_leaf=5, min_samples_split=12, n_estimators=2, total
=   0.5s
[CV]  bootstrap=True, criterion=mse, max_depth=8, max_features=sqr
t, min_samples_leaf=5, min_samples_split=12, n_estimators=2, total
=   0.4s
[CV] bootstrap=True, criterion=mse, max_depth=8, max_features=sqrt
, min_samples_leaf=5, min_samples_split=12, n_estimators=3
[CV] bootstrap=True, criterion=mse, max_depth=8, max_features=sqrt
, min_samples_leaf=5, min_samples_split=12, n_estimators=3
[CV]  bootstrap=True, criterion=mse, max_depth=8, max_features=sqr
t, min_samples_leaf=5, min_samples_split=10, n_estimators=9, total
=   1.9s
[CV] bootstrap=True, criterion=mse, max_depth=8, max_features=sqrt
```

```
, min_samples_leaf=5, min_samples_split=12, n_estimators=3
[CV]  bootstrap=True, criterion=mse, max_depth=8, max_features=sqr
t, min_samples_leaf=5, min_samples_split=12, n_estimators=2, total
=   0.5s
[CV]  bootstrap=True, criterion=mse, max_depth=8, max_features=sqr
t, min_samples_leaf=5, min_samples_split=12, n_estimators=2, total
=   0.5s
[CV] bootstrap=True, criterion=mse, max_depth=8, max_features=sqrt
, min_samples_leaf=5, min_samples_split=12, n_estimators=3
[CV]  bootstrap=True, criterion=mse, max_depth=8, max_features=sqr
t, min_samples_leaf=5, min_samples_split=10, n_estimators=9, total
=   1.9s
[CV] bootstrap=True, criterion=mse, max_depth=8, max_features=sqrt
, min_samples_leaf=5, min_samples_split=12, n_estimators=4
[CV]  bootstrap=True, criterion=mse, max_depth=8, max_features=sqr
t, min_samples_leaf=5, min_samples_split=10, n_estimators=9, total
=   1.9s
[CV] bootstrap=True, criterion=mse, max_depth=8, max_features=sqrt
, min_samples_leaf=5, min_samples_split=12, n_estimators=4
[CV]  bootstrap=True, criterion=mse, max_depth=8, max_features=sqr
t, min_samples_leaf=5, min_samples_split=12, n_estimators=3, total
=   0.6s
[CV] bootstrap=True, criterion=mse, max_depth=8, max_features=sqrt
, min_samples_leaf=5, min_samples_split=12, n_estimators=4
[CV]  bootstrap=True, criterion=mse, max_depth=8, max_features=sqr
t, min_samples_leaf=5, min_samples_split=10, n_estimators=9, total
=   1.9s
[CV]  bootstrap=True, criterion=mse, max_depth=8, max_features=sqr
t, min_samples_leaf=5, min_samples_split=12, n_estimators=3, total
=   0.7s
[CV] bootstrap=True, criterion=mse, max_depth=8, max_features=sqrt
, min_samples_leaf=5, min_samples_split=12, n_estimators=4
[CV]  bootstrap=True, criterion=mse, max_depth=8, max_features=sqr
t, min_samples_leaf=5, min_samples_split=10, n_estimators=9, total
=   2.1s
[CV]  bootstrap=True, criterion=mse, max_depth=8, max_features=sqr
t, min_samples_leaf=5, min_samples_split=12, n_estimators=3, total
=   0.7s
[CV] bootstrap=True, criterion=mse, max_depth=8, max_features=sqrt
, min_samples_leaf=5, min_samples_split=12, n_estimators=4
[CV]  bootstrap=True, criterion=mse, max_depth=8, max_features=sqr
t, min_samples_leaf=5, min_samples_split=12, n_estimators=3, total
=   0.7s
[CV] bootstrap=True, criterion=mse, max_depth=8, max_features=sqrt
, min_samples_leaf=5, min_samples_split=12, n_estimators=5
[CV]  bootstrap=True, criterion=mse, max_depth=8, max_features=sqr
t, min_samples_leaf=5, min_samples_split=12, n_estimators=3, total
=   0.6s
[CV] bootstrap=True, criterion=mse, max_depth=8, max_features=sqrt
, min_samples_leaf=5, min_samples_split=12, n_estimators=5
[CV]  bootstrap=True, criterion=mse, max_depth=8, max_features=sqr
t, min_samples_leaf=5, min_samples_split=10, n_estimators=10, tota
l=   2.2s
[CV]  bootstrap=True, criterion=mse, max_depth=8, max_features=sqr
```

```
t, min_samples_leaf=5, min_samples_split=10, n_estimators=10, tota
l=   2.1s
[CV] bootstrap=True, criterion=mse, max_depth=8, max_features=sqrt
, min_samples_leaf=5, min_samples_split=12, n_estimators=5
[CV] bootstrap=True, criterion=mse, max_depth=8, max_features=sqrt
, min_samples_leaf=5, min_samples_split=12, n_estimators=5
[CV]  bootstrap=True, criterion=mse, max_depth=8, max_features=sqr
t, min_samples_leaf=5, min_samples_split=10, n_estimators=10, tota
l=   2.1s
[CV]  bootstrap=True, criterion=mse, max_depth=8, max_features=sqr
t, min_samples_leaf=5, min_samples_split=10, n_estimators=10, tota
l=   2.1s
[CV]  bootstrap=True, criterion=mse, max_depth=8, max_features=sqr
t, min_samples_leaf=5, min_samples_split=12, n_estimators=4, total
=   0.8s
[CV] bootstrap=True, criterion=mse, max_depth=8, max_features=sqrt
, min_samples_leaf=5, min_samples_split=12, n_estimators=5
[CV] bootstrap=True, criterion=mse, max_depth=8, max_features=sqrt
, min_samples_leaf=5, min_samples_split=12, n_estimators=6
[CV]  bootstrap=True, criterion=mse, max_depth=8, max_features=sqr
t, min_samples_leaf=5, min_samples_split=10, n_estimators=10, tota
l=   2.2s
[CV]  bootstrap=True, criterion=mse, max_depth=8, max_features=sqr
t, min_samples_leaf=5, min_samples_split=12, n_estimators=4, total
=   0.9s
[CV] bootstrap=True, criterion=mse, max_depth=8, max_features=sqrt
, min_samples_leaf=5, min_samples_split=12, n_estimators=6
[CV]  bootstrap=True, criterion=mse, max_depth=8, max_features=sqr
t, min_samples_leaf=5, min_samples_split=12, n_estimators=4, total
=   0.9s
[CV] bootstrap=True, criterion=mse, max_depth=8, max_features=sqrt
, min_samples_leaf=5, min_samples_split=12, n_estimators=6
[CV]  bootstrap=True, criterion=mse, max_depth=8, max_features=sqr
t, min_samples_leaf=5, min_samples_split=12, n_estimators=4, total
=   0.9s
[CV] bootstrap=True, criterion=mse, max_depth=8, max_features=sqrt
, min_samples_leaf=5, min_samples_split=12, n_estimators=6
[CV]  bootstrap=True, criterion=mse, max_depth=8, max_features=sqr
t, min_samples_leaf=5, min_samples_split=12, n_estimators=4, total
=   0.9s
[CV] bootstrap=True, criterion=mse, max_depth=8, max_features=sqrt
, min_samples_leaf=5, min_samples_split=12, n_estimators=6
[CV] bootstrap=True, criterion=mse, max_depth=8, max_features=sqrt
, min_samples_leaf=5, min_samples_split=12, n_estimators=7
[CV] bootstrap=True, criterion=mse, max_depth=8, max_features=sqrt
, min_samples_leaf=5, min_samples_split=12, n_estimators=7
[CV]  bootstrap=True, criterion=mse, max_depth=8, max_features=sqr
t, min_samples_leaf=5, min_samples_split=12, n_estimators=5, total
=   1.1s
[CV]  bootstrap=True, criterion=mse, max_depth=8, max_features=sqr
t, min_samples_leaf=5, min_samples_split=12, n_estimators=5, total
=   1.0s
[CV] bootstrap=True, criterion=mse, max_depth=8, max_features=sqrt
, min_samples_leaf=5, min_samples_split=12, n_estimators=7
```

```
[CV] bootstrap=True, criterion=mse, max_depth=8, max_features=sqrt
, min_samples_leaf=5, min_samples_split=12, n_estimators=7
[CV]  bootstrap=True, criterion=mse, max_depth=8, max_features=sqr
t, min_samples_leaf=5, min_samples_split=12, n_estimators=5, total
=   1.1s
[CV]  bootstrap=True, criterion=mse, max_depth=8, max_features=sqr
t, min_samples_leaf=5, min_samples_split=12, n_estimators=5, total
=   1.0s
[CV] bootstrap=True, criterion=mse, max_depth=8, max_features=sqrt
, min_samples_leaf=5, min_samples_split=12, n_estimators=7
[CV] bootstrap=True, criterion=mse, max_depth=8, max_features=sqrt
, min_samples_leaf=5, min_samples_split=12, n_estimators=8
[CV]  bootstrap=True, criterion=mse, max_depth=8, max_features=sqr
t, min_samples_leaf=5, min_samples_split=12, n_estimators=5, total
=   1.0s
[CV] bootstrap=True, criterion=mse, max_depth=8, max_features=sqrt
, min_samples_leaf=5, min_samples_split=12, n_estimators=8
[CV] bootstrap=True, criterion=mse, max_depth=8, max_features=sqrt
, min_samples_leaf=5, min_samples_split=12, n_estimators=8
[CV]  bootstrap=True, criterion=mse, max_depth=8, max_features=sqr
t, min_samples_leaf=5, min_samples_split=12, n_estimators=6, total
=   1.2s
[CV] bootstrap=True, criterion=mse, max_depth=8, max_features=sqrt
, min_samples_leaf=5, min_samples_split=12, n_estimators=8
[CV] bootstrap=True, criterion=mse, max_depth=8, max_features=sqrt
, min_samples_leaf=5, min_samples_split=12, n_estimators=8
[CV]  bootstrap=True, criterion=mse, max_depth=8, max_features=sqr
t, min_samples_leaf=5, min_samples_split=12, n_estimators=6, total
=   1.3s
[CV] bootstrap=True, criterion=mse, max_depth=8, max_features=sqrt
, min_samples_leaf=5, min_samples_split=12, n_estimators=9
[CV]  bootstrap=True, criterion=mse, max_depth=8, max_features=sqr
t, min_samples_leaf=5, min_samples_split=12, n_estimators=6, total
=   1.3s
[CV] bootstrap=True, criterion=mse, max_depth=8, max_features=sqrt
, min_samples_leaf=5, min_samples_split=12, n_estimators=9
[CV]  bootstrap=True, criterion=mse, max_depth=8, max_features=sqr
t, min_samples_leaf=5, min_samples_split=12, n_estimators=6, total
=   1.2s
[CV] bootstrap=True, criterion=mse, max_depth=8, max_features=sqrt
, min_samples_leaf=5, min_samples_split=12, n_estimators=9
[CV] bootstrap=True, criterion=mse, max_depth=8, max_features=sqrt
, min_samples_leaf=5, min_samples_split=12, n_estimators=9
[CV]  bootstrap=True, criterion=mse, max_depth=8, max_features=sqr
t, min_samples_leaf=5, min_samples_split=12, n_estimators=6, total
=   1.3s
[CV] bootstrap=True, criterion=mse, max_depth=8, max_features=sqrt
, min_samples_leaf=5, min_samples_split=12, n_estimators=9
[CV] bootstrap=True, criterion=mse, max_depth=8, max_features=sqrt
, min_samples_leaf=5, min_samples_split=12, n_estimators=10
[CV] bootstrap=True, criterion=mse, max_depth=8, max_features=sqrt
, min_samples_leaf=5, min_samples_split=12, n_estimators=10
[CV]  bootstrap=True, criterion=mse, max_depth=8, max_features=sqr
t, min_samples_leaf=5, min_samples_split=12, n_estimators=7, total
```

```
=    1.5s
[CV] bootstrap=True, criterion=mse, max_depth=8, max_features=sqrt
, min_samples_leaf=5, min_samples_split=12, n_estimators=10
[CV] bootstrap=True, criterion=mse, max_depth=8, max_features=sqrt
, min_samples_leaf=5, min_samples_split=12, n_estimators=10
[CV]  bootstrap=True, criterion=mse, max_depth=8, max_features=sqr
t, min_samples_leaf=5, min_samples_split=12, n_estimators=7, total
=    1.6s
[CV] bootstrap=True, criterion=mse, max_depth=8, max_features=sqrt
, min_samples_leaf=5, min_samples_split=12, n_estimators=10
[CV]  bootstrap=True, criterion=mse, max_depth=8, max_features=sqr
t, min_samples_leaf=5, min_samples_split=12, n_estimators=7, total
=    1.5s
[CV]  bootstrap=True, criterion=mse, max_depth=8, max_features=sqr
t, min_samples_leaf=5, min_samples_split=12, n_estimators=7, total
=    1.6s
[CV]  bootstrap=True, criterion=mse, max_depth=8, max_features=sqr
t, min_samples_leaf=5, min_samples_split=12, n_estimators=7, total
=    1.5s
[CV]  bootstrap=True, criterion=mse, max_depth=8, max_features=sqr
t, min_samples_leaf=5, min_samples_split=12, n_estimators=8, total
=    1.7s
[CV]  bootstrap=True, criterion=mse, max_depth=8, max_features=sqr
t, min_samples_leaf=5, min_samples_split=12, n_estimators=8, total
=    1.8s
[CV]  bootstrap=True, criterion=mse, max_depth=8, max_features=sqr
t, min_samples_leaf=5, min_samples_split=12, n_estimators=8, total
=    1.7s
[CV]  bootstrap=True, criterion=mse, max_depth=8, max_features=sqr
t, min_samples_leaf=5, min_samples_split=12, n_estimators=8, total
=    1.8s
[CV]  bootstrap=True, criterion=mse, max_depth=8, max_features=sqr
t, min_samples_leaf=5, min_samples_split=12, n_estimators=8, total
=    1.8s
[CV]  bootstrap=True, criterion=mse, max_depth=8, max_features=sqr
t, min_samples_leaf=5, min_samples_split=12, n_estimators=9, total
=    1.8s
[CV]  bootstrap=True, criterion=mse, max_depth=8, max_features=sqr
t, min_samples_leaf=5, min_samples_split=12, n_estimators=9, total
=    1.9s
[CV]  bootstrap=True, criterion=mse, max_depth=8, max_features=sqr
t, min_samples_leaf=5, min_samples_split=12, n_estimators=9, total
=    1.9s
[CV]  bootstrap=True, criterion=mse, max_depth=8, max_features=sqr
t, min_samples_leaf=5, min_samples_split=12, n_estimators=9, total
=    1.8s
[CV]  bootstrap=True, criterion=mse, max_depth=8, max_features=sqr
t, min_samples_leaf=5, min_samples_split=12, n_estimators=9, total
=    2.0s
[CV]  bootstrap=True, criterion=mse, max_depth=8, max_features=sqr
t, min_samples_leaf=5, min_samples_split=12, n_estimators=10, tota
l=    2.0s
[CV]  bootstrap=True, criterion=mse, max_depth=8, max_features=sqr
t, min_samples_leaf=5, min_samples_split=12, n_estimators=10, tota
```

```
l=    2.2s
[CV]  bootstrap=True, criterion=mse, max_depth=8, max_features=sqr
t, min_samples_leaf=5, min_samples_split=12, n_estimators=10, tota
l=    2.0s
[CV]  bootstrap=True, criterion=mse, max_depth=8, max_features=sqr
t, min_samples_leaf=5, min_samples_split=12, n_estimators=10, tota
l=    2.0s
[CV]  bootstrap=True, criterion=mse, max_depth=8, max_features=sqr
t, min_samples_leaf=5, min_samples_split=12, n_estimators=10, tota
l=    2.0s

[Parallel(n_jobs=-1)]: Done 2430 out of 2430 | elapsed:  6.4min fi
nished
```

Out[104]: {'bootstrap': True,
    'criterion': 'mse',
    'max_depth': 8,
    'max_features': 'auto',
    'min_samples_leaf': 5,
    'min_samples_split': 12,
    'n_estimators': 9}

Finally we could fit the data with the params from GridSearchCV as shown in model 4.

```
In [105]: #Fit last model and predict
rf4 = RandomForestRegressor(n_estimators= 9,
                            min_samples_split= 12,
                            min_samples_leaf= 3,
                            max_features= 'auto',
                            max_depth= 8,
                            bootstrap= True)
rf4.fit(X_train, y_train)
y_rf4_pred = rf4.predict(X_val)
print('RMSE: ', np.sqrt(mean_squared_error(y_val, y_rf4_pred)))
print('R-square: ', r2_score(y_val, y_rf4_pred))
```

```
RMSE:   3.7563265638433894
R-square:   0.06066922887913151
```
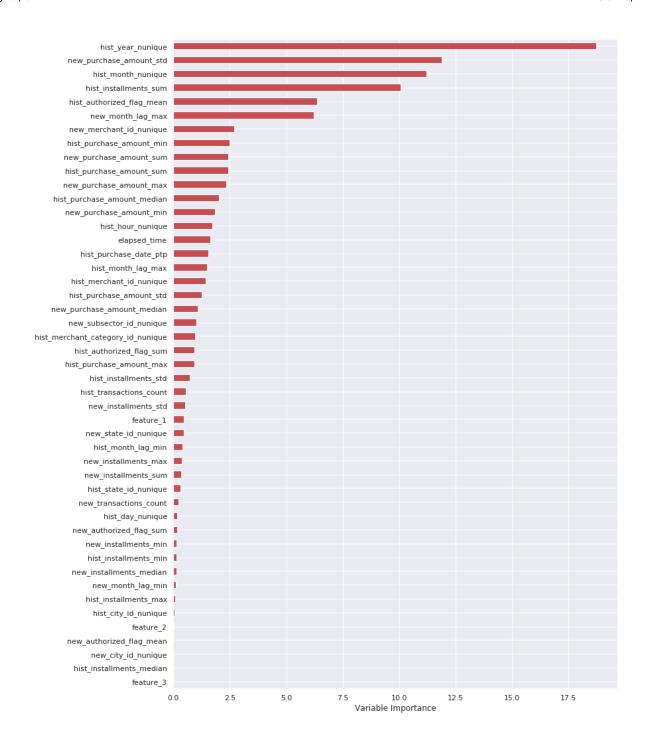
Which model we finally used to submit our final submission will be explained in chapter 8.

7. Feature Importance

Before we submitted our final submission we had a look at the feature importance as illustrated below.

In [106]:
```python
fig, ax = plt.subplots(figsize=(12,18))
feature_importance = rf3.feature_importances_*100
rel_imp = pd.Series(feature_importance, index=X.columns).sort_value
s(inplace=False)
print(rel_imp)
rel_imp.T.plot(kind='barh', color='r', ax=ax)
plt.xlabel('Variable Importance')
plt.gca().legend_ = None
```

```
        feature_3                              0.000000
        hist_installments_median               0.000000
        new_city_id_nunique                    0.000000
        new_authorized_flag_mean               0.000000
        feature_2                              0.018831
        hist_city_id_nunique                   0.038504
        hist_installments_max                  0.073880
        new_month_lag_min                      0.105662
        new_installments_median                0.125679
        hist_installments_min                  0.128434
        new_installments_min                   0.149006
        new_authorized_flag_sum                0.158642
        hist_day_nunique                       0.163764
        new_transactions_count                 0.225442
        hist_state_id_nunique                  0.303895
        new_installments_sum                   0.332063
        new_installments_max                   0.374183
        hist_month_lag_min                     0.403266
        new_state_id_nunique                   0.473506
        feature_1                              0.473576
        new_installments_std                   0.532720
        hist_transactions_count                0.555137
        hist_installments_std                  0.728343
        hist_purchase_amount_max               0.929805
        hist_authorized_flag_sum               0.932320
        hist_merchant_category_id_nunique      0.960117
        new_subsector_id_nunique               1.018158
        new_purchase_amount_median             1.062486
        hist_purchase_amount_std               1.246546
        hist_merchant_id_nunique               1.436142
        hist_month_lag_max                     1.483459
        hist_purchase_date_ptp                 1.555785
        elapsed_time                           1.638749
        hist_hour_nunique                      1.721839
        new_purchase_amount_min                1.847106
        hist_purchase_amount_median            2.023311
        new_purchase_amount_max                2.331211
        hist_purchase_amount_sum               2.417671
        new_purchase_amount_sum                2.435670
        hist_purchase_amount_min               2.477694
        new_merchant_id_nunique                2.681680
        new_month_lag_max                      6.208912
        hist_authorized_flag_mean              6.349090
        hist_installments_sum                 10.050774
        hist_month_nunique                    11.216614
        new_purchase_amount_std               11.883460
        hist_year_nunique                     18.726867
        dtype: float64
```

8. Model Submission

We used the "rf3" model to predict on X_test because we got the best RSME for this model, that is with Random Forest. Finally we could create our final_submission.csv for the Elo challenge.

In [107]:
```python
df_test.head()
```

Out[107]:

	feature_1	feature_2	feature_3	elapsed_time	hist_transactions_count	hist_authorized_fla
0	2	2	1	306	68	
1	1	2	0	396	78	
2	4	0	1	184	13	
3	1	0	0	62	26	
4	4	0	1	793	110	

5 rows × 47 columns

In [108]:
```python
X_test = df_test
X_test.head()
```

Out[108]:

	feature_1	feature_2	feature_3	elapsed_time	hist_transactions_count	hist_authorized_fla
0	2	2	1	306	68	
1	1	2	0	396	78	
2	4	0	1	184	13	
3	1	0	0	62	26	
4	4	0	1	793	110	

5 rows × 47 columns

In [109]:
```python
#Create final submission
y_test = rf3.predict(X_test)
dt = pd.DataFrame({'card_id':df_card['card_id'].values})
dt['target'] = y_test
dt.to_csv('final_submission.csv', index=False)
```

9. Conclusion

The Kernel has provided one possible approach to solve the Elo Challenge. We have seen that an in-depth EDA was particulary necessary since we had different datasets that had to be joined and contained different features. Therefore the most time-consuming step was most likely EDA and Data Preprocessing in order to discover how we could actually create new features. This has not been learned before and was new to the team. Once the features have been created and the data was cleaned, we could relatively quickly apply different models. The result has shown that Random Forest turned out to be the model with the lowest RMSE. Hence, this model has been used for the final submission.