```
In [1]:
        import os
        import numpy as np
        import pandas as pd
        import warnings
        import matplotlib.pyplot as plt
        import seaborn as sns
        import lightgbm as lgb
        from sklearn.metrics import mean squared error
        from sklearn.metrics import roc auc score, roc curve
        from sklearn.model_selection import StratifiedKFold
        warnings.filterwarnings('ignore')
        import pickle
        import scipy.stats as ss
        from sklearn.model_selection import train_test_split, StratifiedKFold, R
        andomizedSearchCV
        from sklearn.metrics import accuracy_score, confusion_matrix, roc_auc_sc
        ore, classification_report
        from sklearn.ensemble import RandomForestClassifier
        from xgboost.sklearn import XGBClassifier
        from sklearn.linear_model import LogisticRegression
```

Exploratory Data analysis

```
In [2]: test_data = pd.read_csv("test.csv")
    train_data = pd.read_csv("train.csv")
    train_data.head()
```

Out[2]:

	ID_code	target	var_0	var_1	var_2	var_3	var_4	var_5	var_(
0	train_0	0	8.9255	-6.7863	11.9081	5.0930	11.4607	-9.2834	5.118 ⁻
1	train_1	0	11.5006	-4.1473	13.8588	5.3890	12.3622	7.0433	5.620
2	train_2	0	8.6093	-2.7457	12.0805	7.8928	10.5825	-9.0837	6.942
3	train_3	0	11.0604	-2.1518	8.9522	7.1957	12.5846	-1.8361	5.842
4	train_4	0	9.8369	-1.4834	12.8746	6.6375	12.2772	2.4486	5.940

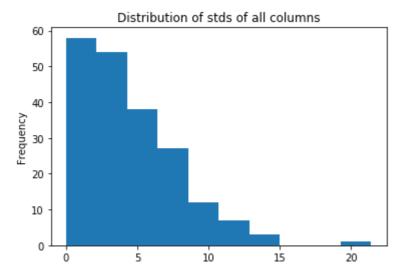
5 rows × 202 columns

```
In [3]:
         test data.head()
Out[3]:
             ID_code
                         var_0
                                   var_1
                                             var_2
                                                     var_3
                                                               var_4
                                                                        var_5
                                                                                var_6
                                                                                         ٧ć
          0
                test 0
                        11.0656
                                   7.7798
                                           12.9536
                                                    9.4292
                                                             11.4327
                                                                      -2.3805
                                                                               5.8493
                                                                                        18.2
                test_1
          1
                        8.5304
                                           11.3047
                                                    5.1858
                                                              9.1974
                                                                      -4.0117
                                                                               6.0196
                                                                                        18.6
                                   1.2543
          2
                test 2
                        5.4827
                                 -10.3581
                                           10.1407
                                                    7.0479
                                                             10.2628
                                                                       9.8052
                                                                               4.8950
                                                                                       20.2
          3
                test 3
                        8.5374
                                  -1.3222
                                           12.0220
                                                    6.5749
                                                              8.8458
                                                                       3.1744
                                                                               4.9397
                                                                                        20.5
                                           14.1295
                                                                                        10.6
          4
                test 4
                       11.7058
                                  -0.1327
                                                    7.7506
                                                              9.1035
                                                                      -8.5848
                                                                               6.8595
         5 rows × 201 columns
         train_data.describe()
In [4]:
Out[4]:
                          target
                                           var_0
                                                           var_1
                                                                            var_2
                  200000.000000
                                  200000.000000
                                                  200000.000000
                                                                   200000.000000
                                                                                   200000.0
          count
                        0.100490
                                       10.679914
                                                       -1.627622
                                                                        10.715192
                                                                                         6.7
          mean
             std
                        0.300653
                                        3.040051
                                                        4.050044
                                                                         2.640894
                                                                                         2.0
                                                      -15.043400
                                                                         2.117100
                                                                                        -0.0
            min
                        0.000000
                                        0.408400
                                                                                         5.2
            25%
                        0.000000
                                        8.453850
                                                        -4.740025
                                                                         8.722475
            50%
                                                                        10.580000
                        0.000000
                                       10.524750
                                                       -1.608050
                                                                                         3.6
            75%
                        0.000000
                                       12.758200
                                                        1.358625
                                                                        12.516700
                                                                                         3.8
            max
                        1.000000
                                       20.315000
                                                       10.376800
                                                                        19.353000
                                                                                        13.1
         8 rows × 201 columns
         print("Dataset Shape\nRows:{0}\nColumns:{1}".format(train_data.shape[0],
In [4]:
         train data.shape[1]))
```

Dataset Shape Rows:200000 Columns:202

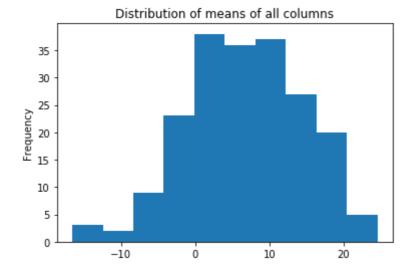
Distribution of stds of all columns

```
In [29]: train_data[train_data.columns[2:]].std().plot('hist');
plt.title('Distribution of stds of all columns');
```



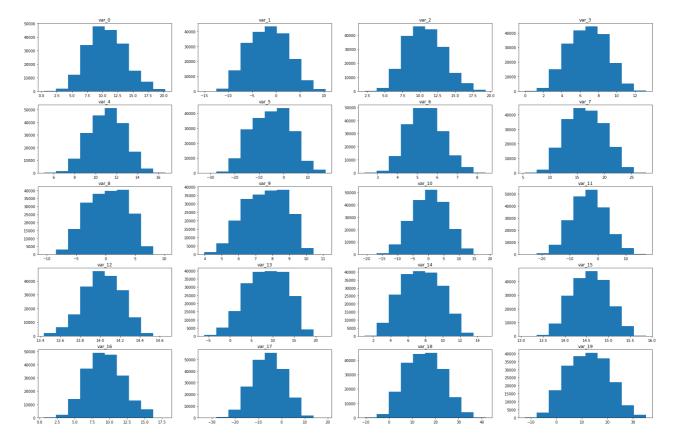
Distribution of stds of all columns

```
In [30]: train_data[train_data.columns[2:]].mean().plot('hist');
    plt.title('Distribution of means of all columns');
```



```
In [31]: print('Distributions of first 20 columns')
plt.figure(figsize=(30, 28))
for i, col in enumerate(list(train_data.columns)[2:22]):
    plt.subplot(7, 4, i + 1)
    plt.hist(train_data[col])
    plt.title(col)
```

Distributions of first 20 columns

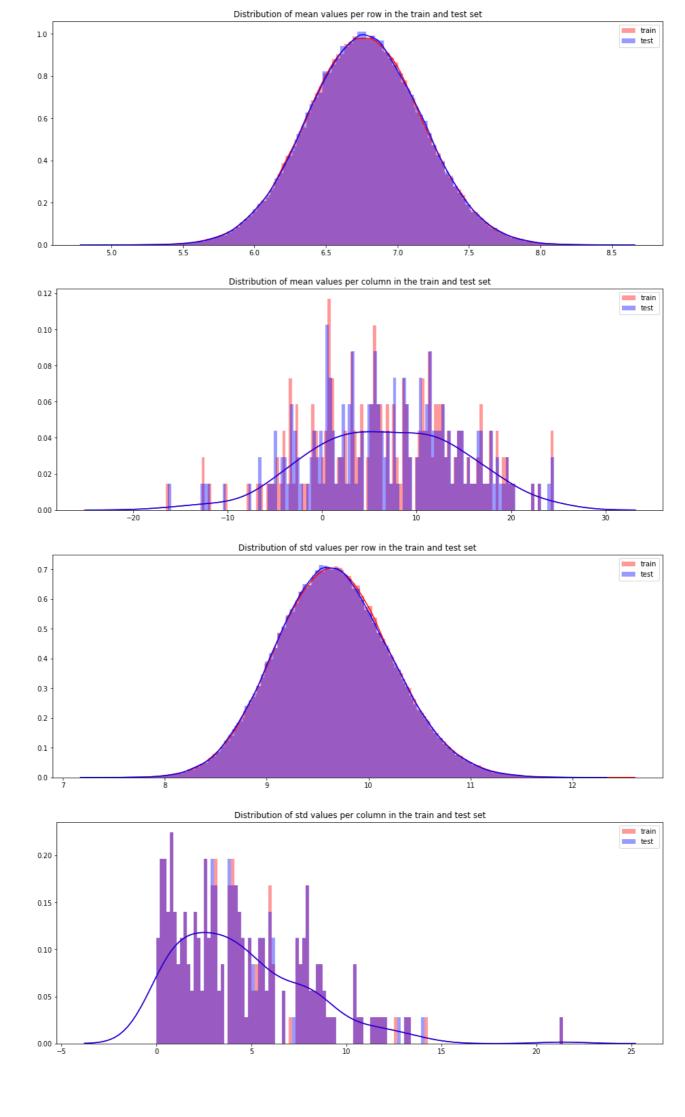


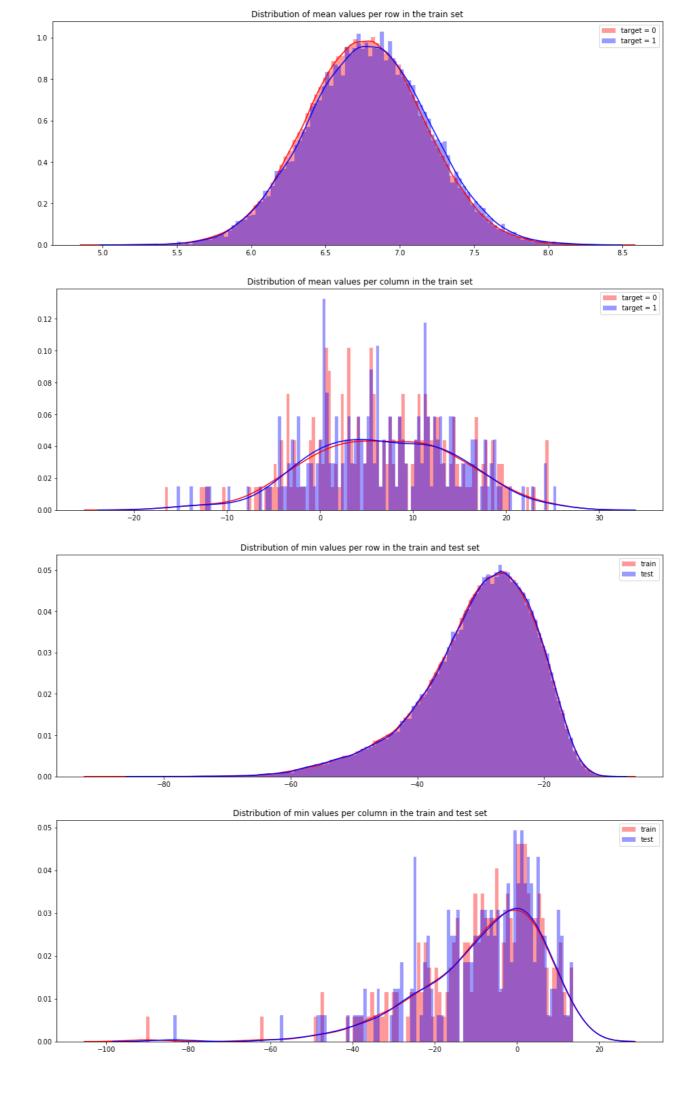
```
In [32]: plt.figure(figsize=(16,6))
         features = train data.columns.values[2:202]
         plt.title("Distribution of mean values per row in the train and test se
         sns.distplot(train data[features].mean(axis=1),color="red", kde=True,bin
         s=120, label='train')
         sns.distplot(test data[features].mean(axis=1),color="blue", kde=True,bin
         s=120, label='test')
         plt.legend()
         plt.show()
         plt.figure(figsize=(16,6))
         plt.title("Distribution of mean values per column in the train and test
          set")
         sns.distplot(train data[features].mean(axis=0),color="red",kde=True,bins
         =120, label='train')
         sns.distplot(test data[features].mean(axis=0),color="blue", kde=True,bin
         s=120, label='test')
         plt.legend()
         plt.show()
         plt.figure(figsize=(16,6))
         plt.title("Distribution of std values per row in the train and test set"
         sns.distplot(train_data[features].std(axis=1),color="red", kde=True,bins
         =120, label='train')
         sns.distplot(test_data[features].std(axis=1),color="blue", kde=True,bins
         =120, label='test')
         plt.legend();plt.show()
         plt.figure(figsize=(16,6))
         plt.title("Distribution of std values per column in the train and test s
         et")
         sns.distplot(train data[features].std(axis=0),color="red",kde=True,bins=
         120, label='train')
         sns.distplot(test_data[features].std(axis=0),color="blue", kde=True,bins
         =120, label='test')
         plt.legend(); plt.show()
         t0 = train_data.loc[train_data['target'] == 0]
         t1 = train data.loc[train data['target'] == 1]
         plt.figure(figsize=(16,6))
         plt.title("Distribution of mean values per row in the train set")
         sns.distplot(t0[features].mean(axis=1),color="red", kde=True,bins=120, 1
         abel='target = 0')
         sns.distplot(t1[features].mean(axis=1),color="blue", kde=True,bins=120,
         label='target = 1')
         plt.legend(); plt.show()
         plt.figure(figsize=(16,6))
         plt.title("Distribution of mean values per column in the train set")
         sns.distplot(t0[features].mean(axis=0),color="red", kde=True,bins=120, l
         abel='target = 0')
         sns.distplot(t1[features].mean(axis=0),color="blue", kde=True,bins=120,
         label='target = 1')
         plt.legend(); plt.show()
         plt.figure(figsize=(16,6))
         features = train data.columns.values[2:202]
         plt.title("Distribution of min values per row in the train and test set"
         )
         sns.distplot(train data[features].min(axis=1),color="red", kde=True,bins
         =120, label='train')
         sns.distplot(test data[features].min(axis=1),color="blue", kde=True,bins
```

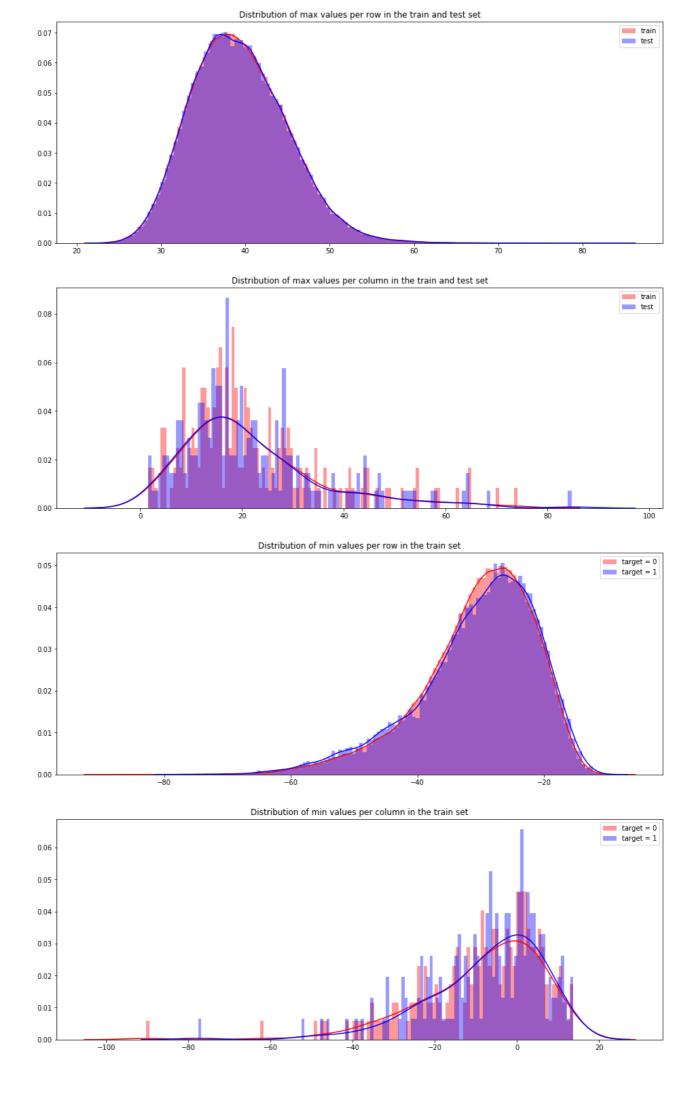
```
=120, label='test')
plt.legend()
plt.show()
plt.figure(figsize=(16,6))
features = train data.columns.values[2:202]
plt.title("Distribution of min values per column in the train and test s
et")
sns.distplot(train data[features].min(axis=0),color="red", kde=True,bins
=120, label='train')
sns.distplot(test data[features].min(axis=0),color="blue", kde=True,bins
=120, label='test')
plt.legend()
plt.show()
plt.figure(figsize=(16,6))
features = train_data.columns.values[2:202]
plt.title("Distribution of max values per row in the train and test set"
sns.distplot(train_data[features].max(axis=1),color="red", kde=True,bins
=120, label='train')
sns.distplot(test_data[features].max(axis=1),color="blue", kde=True,bins
=120, label='test')
plt.legend()
plt.show()
plt.figure(figsize=(16,6))
features = train data.columns.values[2:202]
plt.title("Distribution of max values per column in the train and test s
sns.distplot(train_data[features].max(axis=0),color="red", kde=True,bins
=120, label='train')
sns.distplot(test data[features].max(axis=0),color="blue", kde=True,bins
=120, label='test')
plt.legend()
plt.show()
t0 = train data.loc[train data['target'] == 0]
t1 = train_data.loc[train_data['target'] == 1]
plt.figure(figsize=(16,6))
plt.title("Distribution of min values per row in the train set")
sns.distplot(t0[features].min(axis=1),color="red", kde=True,bins=120, la
bel='target = 0')
sns.distplot(t1[features].min(axis=1),color="blue", kde=True,bins=120, l
abel='target = 1')
plt.legend(); plt.show()
plt.figure(figsize=(16,6))
plt.title("Distribution of min values per column in the train set")
sns.distplot(t0[features].min(axis=0),color="red", kde=True,bins=120, la
bel='target = 0')
sns.distplot(t1[features].min(axis=0),color="blue", kde=True,bins=120, l
abel='target = 1')
plt.legend(); plt.show()
plt.figure(figsize=(16,6))
plt.title("Distribution of max values per row in the train set")
sns.distplot(t0[features].max(axis=1),color="red", kde=True,bins=120, la
bel='target = 0')
sns.distplot(t1[features].max(axis=1),color="blue", kde=True,bins=120, l
abel='target = 1')
plt.legend(); plt.show()
plt.figure(figsize=(16,6))
plt.title("Distribution of max values per column in the train set")
sns.distplot(t0[features].max(axis=0),color="red", kde=True,bins=120, la
```

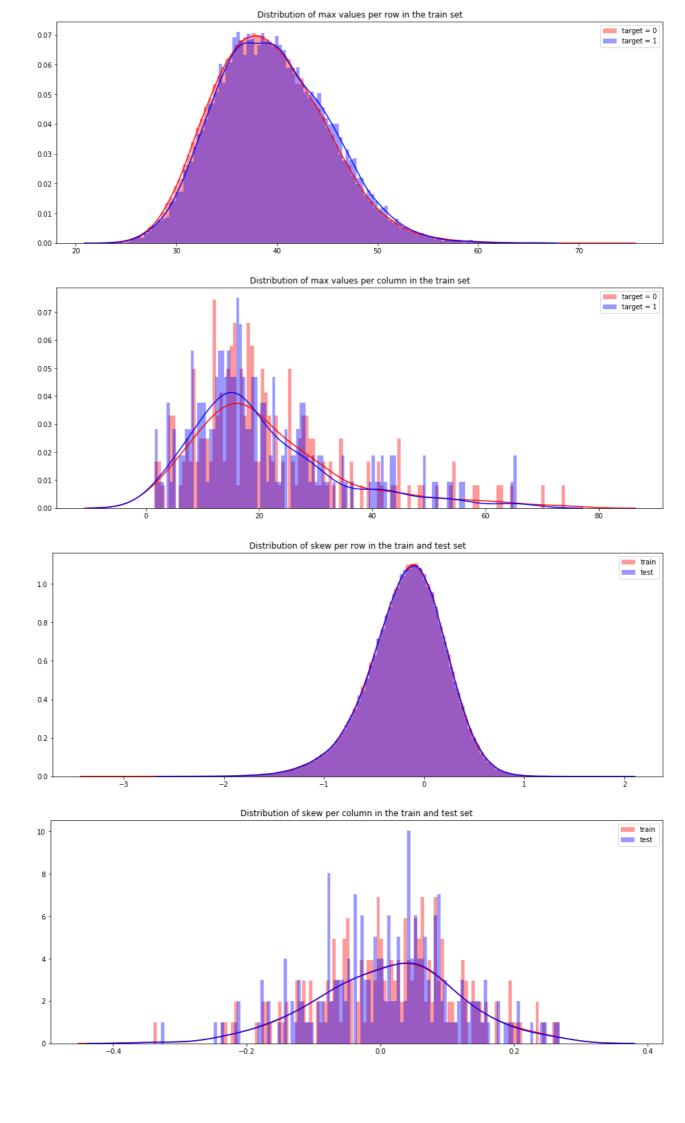
```
bel='target = 0')
sns.distplot(t1[features].max(axis=0),color="blue", kde=True,bins=120, l
abel='target = 1')
plt.legend(); plt.show()
plt.figure(figsize=(16,6))
plt.title("Distribution of skew per row in the train and test set")
sns.distplot(train data[features].skew(axis=1),color="red", kde=True,bin
s=120, label='train')
sns.distplot(test data[features].skew(axis=1),color="blue", kde=True,bin
s=120, label='test')
plt.legend()
plt.show()
plt.figure(figsize=(16,6))
plt.title("Distribution of skew per column in the train and test set")
sns.distplot(train data[features].skew(axis=0),color="red", kde=True,bin
s=120, label='train')
sns.distplot(test data[features].skew(axis=0),color="blue", kde=True,bin
s=120, label='test')
plt.legend()
plt.show()
plt.figure(figsize=(16,6))
plt.title("Distribution of kurtosis per row in the train and test set")
sns.distplot(train_data[features].kurtosis(axis=1),color="red", kde=True
,bins=120, label='train')
sns.distplot(test data[features].kurtosis(axis=1),color="blue", kde=True
,bins=120, label='test')
plt.legend()
plt.show()
plt.figure(figsize=(16,6))
plt.title("Distribution of kurtosis per column in the train and test se
t")
sns.distplot(train_data[features].kurtosis(axis=0),color="red", kde=True
,bins=120, label='train')
sns.distplot(test_data[features].kurtosis(axis=0),color="blue", kde=True
,bins=120, label='test')
plt.legend()
plt.show()
t0 = train_data.loc[train_data['target'] == 0]
t1 = train_data.loc[train_data['target'] == 1]
plt.figure(figsize=(16,6))
plt.title("Distribution of skew values per row in the train set")
sns.distplot(t0[features].skew(axis=1),color="red", kde=True,bins=120, 1
abel='target = 0')
sns.distplot(t1[features].skew(axis=1),color="blue", kde=True,bins=120,
label='target = 1')
plt.legend(); plt.show()
t0 = train_data.loc[train_data['target'] == 0]
t1 = train_data.loc[train_data['target'] == 1]
plt.figure(figsize=(16,6))
plt.title("Distribution of kurtosis values per row in the train set")
sns.distplot(t0[features].kurtosis(axis=1),color="red", kde=True,bins=12
0, label='target = 0')
sns.distplot(t1[features].kurtosis(axis=1),color="blue", kde=True,bins=1
20, label='target = 1')
plt.legend(); plt.show()
t0 = train_data.loc[train_data['target'] == 0]
t1 = train data.loc[train data['target'] == 1]
plt.figure(figsize=(16,6))
plt.title("Distribution of kurtosis values per column in the train set")
```

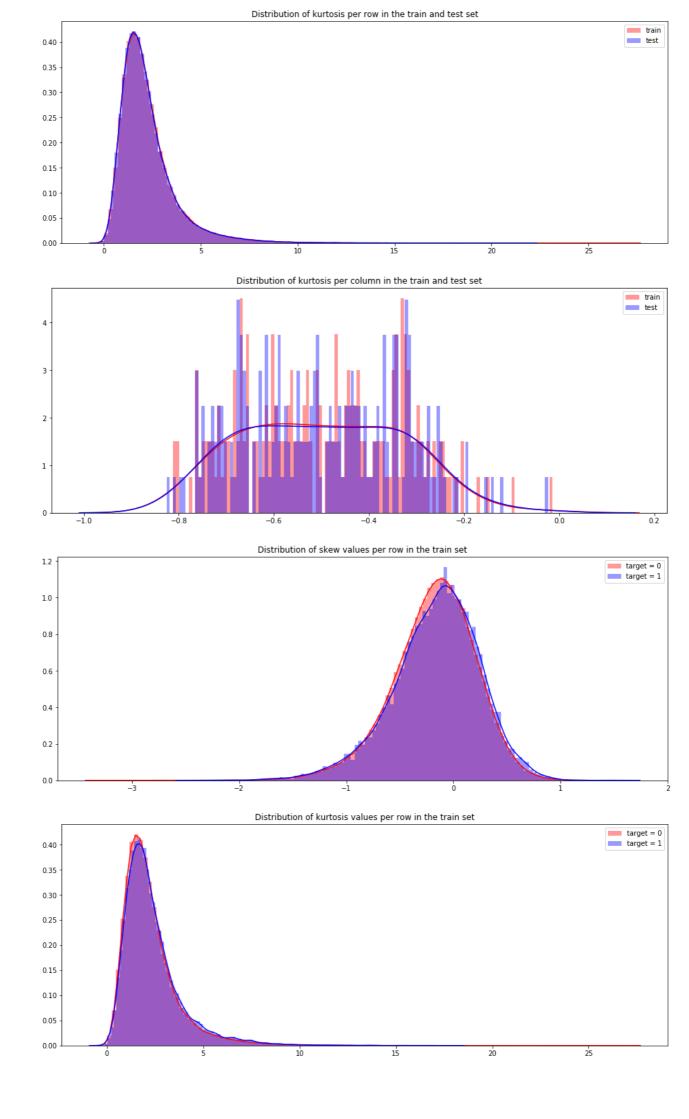
```
sns.distplot(t0[features].kurtosis(axis=0),color="red", kde=True,bins=12
0, label='target = 0')
sns.distplot(t1[features].kurtosis(axis=0),color="blue", kde=True,bins=1
20, label='target = 1')
plt.legend(); plt.show()
```

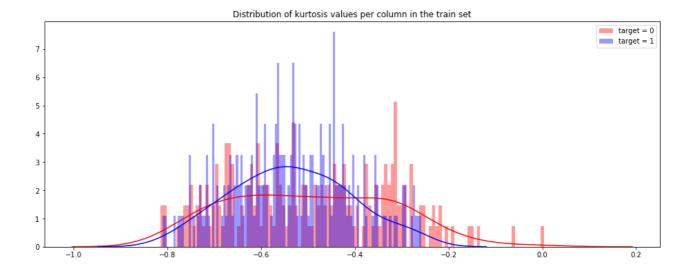












Pre-processing And Data Preparation

correlations

Wall time: 19.1 s

In [34]: correlations.tail(10)

Out[34]:

	level_0	level_1	0
39790	var_183	var_189	0.009359
39791	var_189	var_183	0.009359
39792	var_174	var_81	0.009490
39793	var_81	var_174	0.009490
39794	var_81	var_165	0.009714
39795	var_165	var_81	0.009714
39796	var_53	var_148	0.009788
39797	var_148	var_53	0.009788
39798	var_26	var_139	0.009844
39799	var_139	var_26	0.009844

```
In [35]:
         correlations.head(10)
Out[35]:
                      level_1
              level_0
                                         0
          0
              var 75
                     var 191 2.703975e-08
          1 var 191
                     var 75 2.703975e-08
          2 var 173
                       var 6 5.942735e-08
          3
               var 6 var 173 5.942735e-08
                     var 109 1.313947e-07
          4 var 126
          5 var 109
                    var 126 1.313947e-07
          6 var 144
                     var 27 1.772502e-07
          7
              var_27 var_144 1.772502e-07
          8 var 177 var 100 3.116544e-07
          9 var_100 var_177 3.116544e-07
In [36]:
         features = train_data.columns.values[2:202]
         unique_max_train = []
```

```
In [36]: features = train_data.columns.values[2:202]
    unique_max_train = []
    unique_max_test = []
    for feature in features:
       values = train_data[feature].value_counts()
       unique_max_train.append([feature, values.max(), values.idxmax()])
       values = test_data[feature].value_counts()
       unique_max_test.append([feature, values.max(), values.idxmax()])
```

Out[37]:

	68	108	126	12	91	103	148	7
Feature	var_68	var_108	var_126	var_12	var_91	var_103	var_148	var_7
Max duplicates	1084	313	305	203	66	61	59	5
Value	5.0214	14.1999	11.5356	13.5545	6.9785	1.6662	4.0456	0.703

Out[38]:

	68	126	108	12	91	103	148	1
Feature	var_68	var_126	var_108	var_12	var_91	var_103	var_148	var_1
Max duplicates	1104	307	302	188	86	78	74	
Value	5.0197	11.5357	14.1999	13.5546	6.9939	1.4659	4.0004	5.71

In [4]: targettotrain = train_data['target']
 featurestotrain = train_data.drop(['ID_code', 'target'], axis=1)
 featurestotest = test_data.drop(['ID_code'], axis=1)

In [11]: | from sklearn.model_selection import train_test_split

train_target = train_data['target']
train_modified = train_data.iloc[:,2:]
test_modified = test_data.iloc[:,1:]

X_train, x_test, y_train, y_test = train_test_split(train_modified, trai
n_target, random_state = 13, test_size = 0.3)

pd.DataFrame(data=x_train).head(3)

Out[11]:

	var_0	var_1	var_2	var_3	var_4	var_5	var_6	var_7
61092	11.0156	-1.7036	13.6113	10.7284	11.3013	3.5456	4.6526	11.0551
77702	4.5837	2.8545	8.2859	6.8230	14.4487	2.0574	5.2793	14.4021
19517	9.2443	-7.7795	9.6477	8.1215	11.6240	-9.6645	5.6095	21.3256

3 rows × 200 columns

```
In [5]: X = train_data.drop(["target","ID_code"], axis=1)
    y = train_data["target"]
    X_train, x_test, y_train, y_test = train_test_split(X, y, test_size=0.2
    , random_state=123)
```

```
Out[6]:
                 target
         125714
                     0
         149585
                     0
          27244
                     0
In [7]:
        pd.DataFrame(data=X train).head(3)
Out[7]:
                   var_0
                           var_1
                                    var_2
                                           var_3
                                                    var_4
                                                             var_5
                                                                     var_6
                                                                             var_7
         125714
                 11.4791
                           0.4721
                                  11.6491
                                          2.8147
                                                  11.9129
                                                            -3.5222 4.7829
                                                                           21.0751
         149585
                  9.9893
                          4.9190 17.1635
                                          5.6806
                                                  11.0406 -11.3340 6.0441
                                                                            17.5113
          27244 12.8085 -2.6705
                                   5.9245 5.9104
                                                 11.4729 -13.1428 5.2582
                                                                            16.0739
        3 rows × 200 columns
In [8]:
        from sklearn.manifold import TSNE
        from sklearn import preprocessing
        import pandas as pd
        from multiprocessing import Process# this is used for multithreading
        import multiprocessing
        import codecs# this is used for file operations
        import random as r
        #from xgboost import XGBClassifier
        from sklearn.model selection import RandomizedSearchCV
        from sklearn.tree import DecisionTreeClassifier
        from sklearn.calibration import CalibratedClassifierCV
        from sklearn.neighbors import KNeighborsClassifier
        from sklearn.metrics import log loss
        from sklearn.metrics import confusion matrix
        from sklearn.model selection import train test split
        from sklearn.linear model import LogisticRegression
        from sklearn.ensemble import RandomForestClassifier
```

Machine Learning models

XgBoost

In [6]:

pd.DataFrame(data=y train).head(3)

```
In [9]:
        def xgb model(folds, param comb, X train, x test, y train, y test, save
        file):
             .....
             skf = StratifiedKFold(n splits=folds, shuffle = True, random state =
        123)
             xgb = XGBClassifier(n_jobs=1, random state=123)
             params = {"learning rate":ss.uniform(0.001,0.5),
                      "n_estimators":ss.randint(10,1000),
                      "max_depth": ss.randint(3,25),
                      "min child weight":ss.randint(1,15),
                      "gamma": ss.randint(0,10),
                      "subsample": [0.5, 0.6, 0.7, 0.8, 0.9, 1.0],
                      "colsample_bytree": [0.4, 0.5, 0.6, 0.7, 0.8, 0.9, 1.0],
                      "reg lambda":ss.uniform(0.05,5),
                      "reg alpha":ss.uniform(0.05,5)}
            model_xgb = RandomizedSearchCV(estimator=xgb,
                                             param_distributions=params,
                                             n_iter=param_comb,
                                             scoring='roc_auc',
                                             n_jobs=1,
                                             cv=skf.split(X_train, y_train),
                                             verbose=3,
                                             random_state=123)
            model_xgb.fit(X_train, y_train)
             scores = dict()
             scores["train_dataset"] = {
                 "Accuracy": np.round(accuracy_score(model_xgb.best_estimator_.pr
        edict(X_train), y_train), 4),
                 "AUC": np.round(roc_auc_score(y_train, model_xgb.best_estimator_
        .predict_proba(X_train)[:, 1]), 4)
             scores["validation_dataset"] = {
                 "Accuracy":np.round(accuracy_score(model_xgb.best_estimator .pre
        dict(x_test), y_test), 4),
                 "AUC": np.round(roc_auc_score(y_test, model_xgb.best_estimator_.
        predict proba(x test)[:, 1]), 4)
            pickle.dump(model_xgb.best_estimator_, open(save_file, 'wb'))
             return model xgb, scores
```

```
In [10]: folds = 3
    param_comb = 3
    xgb = xgb_model(folds, param_comb, X_train, x_test, y_train, y_test, 'xg
    b.sav')
    print(f"XGB: {xgb[1]}")
    model_xgb = pickle.load(open('xgb.sav', 'rb'))
```

Fitting 3 folds for each of 3 candidates, totalling 9 fits [CV] colsample_bytree=1.0, gamma=2, learning_rate=0.11442572678210156, m ax_depth=9, min_child_weight=2, n_estimators=605, reg_alpha=2.5055946671 62986, reg_lambda=3.9501388095603955, subsample=0.6

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

[CV] colsample_bytree=1.0, gamma=2, learning_rate=0.11442572678210156, max_depth=9, min_child_weight=2, n_estimators=605, reg_alpha=2.505594667 162986, reg_lambda=3.9501388095603955, subsample=0.6, score=0.8783566631 988908, total=55.0min

[CV] colsample_bytree=1.0, gamma=2, learning_rate=0.11442572678210156, m ax_depth=9, min_child_weight=2, n_estimators=605, reg_alpha=2.5055946671 62986, reg_lambda=3.9501388095603955, subsample=0.6

[Parallel(n_jobs=1)]: Done 1 out of 1 | elapsed: 55.2min remaining: 0.0s

[CV] colsample_bytree=1.0, gamma=2, learning_rate=0.11442572678210156, max_depth=9, min_child_weight=2, n_estimators=605, reg_alpha=2.505594667 162986, reg_lambda=3.9501388095603955, subsample=0.6, score=0.8793912641 371294, total=49.4min

[CV] colsample_bytree=1.0, gamma=2, learning_rate=0.11442572678210156, m ax_depth=9, min_child_weight=2, n_estimators=605, reg_alpha=2.5055946671 62986, reg_lambda=3.9501388095603955, subsample=0.6

[Parallel(n_jobs=1)]: Done 2 out of 2 | elapsed: 104.8min remaining: 0.0s

- [CV] colsample_bytree=1.0, gamma=2, learning_rate=0.11442572678210156, max_depth=9, min_child_weight=2, n_estimators=605, reg_alpha=2.505594667 162986, reg_lambda=3.9501388095603955, subsample=0.6, score=0.8800726872 917852, total=49.6min
- [CV] colsample_bytree=0.4, gamma=1, learning_rate=0.24146595074218047, m ax_depth=12, min_child_weight=1, n_estimators=952, reg_alpha=3.186585046 688083, reg_lambda=1.6707544668977052, subsample=1.0
- [CV] colsample_bytree=0.4, gamma=1, learning_rate=0.24146595074218047, max_depth=12, min_child_weight=1, n_estimators=952, reg_alpha=3.18658504 6688083, reg_lambda=1.6707544668977052, subsample=1.0, score=0.871303053 4329216, total=54.9min
- [CV] colsample_bytree=0.4, gamma=1, learning_rate=0.24146595074218047, m ax_depth=12, min_child_weight=1, n_estimators=952, reg_alpha=3.186585046 688083, reg_lambda=1.6707544668977052, subsample=1.0
- [CV] colsample_bytree=0.4, gamma=1, learning_rate=0.24146595074218047, max_depth=12, min_child_weight=1, n_estimators=952, reg_alpha=3.18658504 6688083, reg_lambda=1.6707544668977052, subsample=1.0, score=0.873034103 0667256, total=54.9min
- [CV] colsample_bytree=0.4, gamma=1, learning_rate=0.24146595074218047, m ax_depth=12, min_child_weight=1, n_estimators=952, reg_alpha=3.186585046 688083, reg_lambda=1.6707544668977052, subsample=1.0
- [CV] colsample_bytree=0.4, gamma=1, learning_rate=0.24146595074218047, max_depth=12, min_child_weight=1, n_estimators=952, reg_alpha=3.18658504 6688083, reg_lambda=1.6707544668977052, subsample=1.0, score=0.876218288 9304233, total=54.6min
- [CV] colsample_bytree=0.8, gamma=0, learning_rate=0.29795119983701185, m ax_depth=20, min_child_weight=8, n_estimators=461, reg_alpha=0.927258780 7374627, reg_lambda=2.7077568692091916, subsample=0.9
- [CV] colsample_bytree=0.8, gamma=0, learning_rate=0.29795119983701185, max_depth=20, min_child_weight=8, n_estimators=461, reg_alpha=0.92725878 07374627, reg_lambda=2.7077568692091916, subsample=0.9, score=0.87337271 19791519, total=41.5min
- [CV] colsample_bytree=0.8, gamma=0, learning_rate=0.29795119983701185, m ax_depth=20, min_child_weight=8, n_estimators=461, reg_alpha=0.927258780 7374627, reg_lambda=2.7077568692091916, subsample=0.9
- [CV] colsample_bytree=0.8, gamma=0, learning_rate=0.29795119983701185, max_depth=20, min_child_weight=8, n_estimators=461, reg_alpha=0.92725878 07374627, reg_lambda=2.7077568692091916, subsample=0.9, score=0.87215223 27903496, total=41.7min
- [CV] colsample_bytree=0.8, gamma=0, learning_rate=0.29795119983701185, m ax_depth=20, min_child_weight=8, n_estimators=461, reg_alpha=0.927258780 7374627, reg_lambda=2.7077568692091916, subsample=0.9
- [CV] colsample_bytree=0.8, gamma=0, learning_rate=0.29795119983701185, max_depth=20, min_child_weight=8, n_estimators=461, reg_alpha=0.92725878 07374627, reg_lambda=2.7077568692091916, subsample=0.9, score=0.87658269 94306036, total=41.5min
- [Parallel(n_jobs=1)]: Done 9 out of 9 | elapsed: 444.5min finished
- XGB: {'train_dataset': {'Accuracy': 0.9974, 'AUC': 1.0}, 'validation_dataset': {'Accuracy': 0.9172, 'AUC': 0.8817}}

```
In [11]: | print(f"XGB: {xgb[0]}")
         XGB: RandomizedSearchCV(cv=<generator object BaseKFold.split at 0x00000
         12B812D1138>,
                   error score='raise-deprecating',
                   estimator=XGBClassifier(base score=0.5, booster='gbtree', cols
         ample bylevel=1,
                colsample bytree=1, gamma=0, learning rate=0.1, max delta step=0,
                max depth=3, min child weight=1, missing=None, n estimators=100,
                n jobs=1, nthread=None, objective='binary:logistic',
                random_state=123, reg_alpha=0, reg_lambda=1, scale_pos_weight=1,
                seed=None, silent=True, subsample=1),
                   fit_params=None, iid='warn', n_iter=3, n_jobs=1,
                   param_distributions={'learning_rate': <scipy.stats._distn_infr</pre>
         astructure.rv frozen object at 0x0000012B812A8160>, 'n estimators': <sci
         py.stats. distn infrastructure.rv frozen object at 0x0000012B812A8668>,
         'max_depth': <scipy.stats._distn_infrastructure.rv_frozen object at 0x00</pre>
         00012B812A83C8>, 'min_...B812A8DD8>, 'reg_alpha': <scipy.stats._distn_in
         frastructure.rv frozen object at 0x0000012B812A8CF8>},
                   pre_dispatch='2*n_jobs', random_state=123, refit=True,
                   return_train_score='warn', scoring='roc_auc', verbose=3)
```

LGBMClassifier

```
In [18]: import lightgbm as lgb
from lightgbm import LGBMModel, LGBMClassifier
```

```
In [48]:
         def lgb model(folds, param comb, X train, y train, x test, y test, save
         file):
             .....
             skf = StratifiedKFold(n splits=folds, shuffle = True, random state =
         123)
             lgb = LGBMClassifier(n_jobs=1, random_state=123)
             params = {"num leaves":ss.randint(2,50),
                        "max_depth": [1 ,2,4,6,8,10],
                        "learning rate":ss.uniform(0.001,0.5),
                        "n estimators":ss.randint(10,1000),
                        "objective": ["binary"],
                        "class_weight": ["balanced"],
                        "subsample": [ 0.6, 0.7, 0.8, 0.9, 1.0],
                        "colsample bytree": [ 0.5, 0.6, 0.7, 0.8, 0.9, 1.0],
                        "reg_lambda":ss.uniform(0.05,5),
                        "reg_alpha":ss.uniform(0.05,5),
                        "min_child_weight":ss.randint(1,15)}
             model_lgb = RandomizedSearchCV(estimator=lgb,
                                              param_distributions=params,
                                              n_iter=param_comb,
                                              scoring='roc_auc',
                                              n jobs=1,
                                              cv=skf.split(X_train, y_train),
                                              verbose=3,
                                              random state=123)
             model_lgb.fit(X_train, y_train, )
             scores = dict()
             scores["train_dataset"] = {
                  "Accuracy": np.round(accuracy score(model lgb.best estimator .pr
         edict(X_train), y_train), 4),
                  "AUC": np.round(roc_auc_score(y_train, model_lgb.best_estimator_
         .predict_proba(X_train)[:, 1]), 4)
               }
             scores["validation dataset"] = {
                  "Accuracy":np.round(accuracy_score(model_lgb.best_estimator_.pre
         dict(x test), y test), 4),
                  "AUC": np.round(roc_auc_score(y_test, model_lgb.best_estimator_.
         predict_proba(x_test)[:, 1]), 4)
             pickle.dump(model_lgb.best_estimator_, open(save_file, 'wb'))
             return model lgb, scores
```

```
In [49]: folds = 3
    param_comb = 5
    lgb = lgb_model(folds, param_comb, X_train, y_train,x_test, y_test ,'lg
    b.sav')
    print(f"LGB: {lgb[1]}")
    model_lgb = pickle.load(open('lgb.sav', 'rb'))
```

Fitting 3 folds for each of 5 candidates, totalling 15 fits [CV] class_weight=balanced, colsample_bytree=1.0, learning_rate=0.144069 66747518973, max_depth=8, min_child_weight=3, n_estimators=752, num_leav es=19, objective=binary, reg_alpha=3.647344848927815, reg_lambda=2.16553 23006223046, subsample=0.7

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

[CV] class_weight=balanced, colsample_bytree=1.0, learning_rate=0.14406 966747518973, max_depth=8, min_child_weight=3, n_estimators=752, num_lea ves=19, objective=binary, reg_alpha=3.647344848927815, reg_lambda=2.1655 323006223046, subsample=0.7, score=0.8798577703633413, total= 1.6min [CV] class_weight=balanced, colsample_bytree=1.0, learning_rate=0.144069 66747518973, max_depth=8, min_child_weight=3, n_estimators=752, num_leav es=19, objective=binary, reg_alpha=3.647344848927815, reg_lambda=2.16553 23006223046, subsample=0.7

[Parallel(n_jobs=1)]: Done 1 out of 1 | elapsed: 1.7min remaining: 0.0s

[CV] class_weight=balanced, colsample_bytree=1.0, learning_rate=0.14406 966747518973, max_depth=8, min_child_weight=3, n_estimators=752, num_lea ves=19, objective=binary, reg_alpha=3.647344848927815, reg_lambda=2.1655 323006223046, subsample=0.7, score=0.8800819125164528, total= 1.7min [CV] class_weight=balanced, colsample_bytree=1.0, learning_rate=0.144069 66747518973, max_depth=8, min_child_weight=3, n_estimators=752, num_leav es=19, objective=binary, reg_alpha=3.647344848927815, reg_lambda=2.16553 23006223046, subsample=0.7

[Parallel(n_jobs=1)]: Done 2 out of 2 | elapsed: 3.5min remaining:
0.0s

```
[CV] class weight=balanced, colsample bytree=1.0, learning rate=0.14406
966747518973, max_depth=8, min_child_weight=3, n_estimators=752, num lea
ves=19, objective=binary, reg alpha=3.647344848927815, reg lambda=2.1655
323006223046, subsample=0.7, score=0.8809420274324905, total= 1.6min
[CV] class_weight=balanced, colsample_bytree=0.5, learning_rate=0.290847
14851130505, max depth=2, min child weight=1, n estimators=952, num leav
es=34, objective=binary, reg_alpha=3.695248536920208, reg_lambda=2.24286
12233981218, subsample=1.0
[CV] class weight=balanced, colsample bytree=0.5, learning rate=0.29084
714851130505, max_depth=2, min_child_weight=1, n_estimators=952, num_lea
ves=34, objective=binary, reg_alpha=3.695248536920208, reg_lambda=2.2428
612233981218, subsample=1.0, score=0.8875243298948033, total= 32.1s
[CV] class weight=balanced, colsample bytree=0.5, learning rate=0.290847
14851130505, max depth=2, min child weight=1, n estimators=952, num leav
es=34, objective=binary, reg_alpha=3.695248536920208, reg_lambda=2.24286
12233981218, subsample=1.0
[CV] class_weight=balanced, colsample_bytree=0.5, learning_rate=0.29084
714851130505, max_depth=2, min_child_weight=1, n_estimators=952, num_lea
ves=34, objective=binary, reg_alpha=3.695248536920208, reg_lambda=2.2428
612233981218, subsample=1.0, score=0.8859437438142173, total= 31.9s
[CV] class_weight=balanced, colsample_bytree=0.5, learning_rate=0.290847
14851130505, max_depth=2, min_child_weight=1, n_estimators=952, num_leav
es=34, objective=binary, reg_alpha=3.695248536920208, reg_lambda=2.24286
12233981218, subsample=1.0
[CV] class_weight=balanced, colsample_bytree=0.5, learning_rate=0.29084
714851130505, max_depth=2, min_child_weight=1, n_estimators=952, num lea
ves=34, objective=binary, reg_alpha=3.695248536920208, reg_lambda=2.2428
612233981218, subsample=1.0, score=0.8879435276468068, total= 31.9s
[CV] class_weight=balanced, colsample_bytree=0.5, learning_rate=0.297951
19983701185, max_depth=2, min_child_weight=8, n_estimators=461, num_leav
es=4, objective=binary, reg_alpha=0.46863242281792167, reg_lambda=3.6116
50906943812, subsample=0.6
[CV] class_weight=balanced, colsample_bytree=0.5, learning_rate=0.29795
119983701185, max_depth=2, min_child_weight=8, n_estimators=461, num_lea
ves=4, objective=binary, reg_alpha=0.46863242281792167, reg_lambda=3.611
650906943812, subsample=0.6, score=0.8857799902047815, total= 18.3s
[CV] class_weight=balanced, colsample_bytree=0.5, learning_rate=0.297951
19983701185, max_depth=2, min_child_weight=8, n_estimators=461, num_leav
es=4, objective=binary, reg alpha=0.46863242281792167, reg lambda=3.6116
50906943812, subsample=0.6
[CV] class_weight=balanced, colsample_bytree=0.5, learning_rate=0.29795
119983701185, max_depth=2, min_child_weight=8, n_estimators=461, num_lea
ves=4, objective=binary, reg_alpha=0.46863242281792167, reg_lambda=3.611
650906943812, subsample=0.6, score=0.8837121838236044, total= 18.8s
[CV] class_weight=balanced, colsample_bytree=0.5, learning_rate=0.297951
19983701185, max_depth=2, min_child_weight=8, n_estimators=461, num_leav
es=4, objective=binary, reg_alpha=0.46863242281792167, reg_lambda=3.6116
50906943812, subsample=0.6
[CV] class_weight=balanced, colsample_bytree=0.5, learning_rate=0.29795
119983701185, max depth=2, min child weight=8, n estimators=461, num lea
ves=4, objective=binary, reg_alpha=0.46863242281792167, reg_lambda=3.611
650906943812, subsample=0.6, score=0.8861656308044005, total= 18.3s
[CV] class weight=balanced, colsample bytree=1.0, learning rate=0.425715
8970388948, max_depth=2, min_child_weight=4, n_estimators=390, num_leave
s=30, objective=binary, reg alpha=3.6622169128511075, reg lambda=1.66479
45692658912, subsample=0.9
[CV] class_weight=balanced, colsample_bytree=1.0, learning_rate=0.42571
```

58970388948, max depth=2, min child weight=4, n estimators=390, num leav

```
945692658912, subsample=0.9, score=0.8842285602048833, total= 27.7s
[CV] class weight=balanced, colsample bytree=1.0, learning rate=0.425715
8970388948, max depth=2, min child weight=4, n estimators=390, num leave
s=30, objective=binary, reg alpha=3.6622169128511075, reg lambda=1.66479
45692658912, subsample=0.9
[CV] class weight=balanced, colsample bytree=1.0, learning rate=0.42571
58970388948, max depth=2, min child weight=4, n estimators=390, num leav
es=30, objective=binary, reg alpha=3.6622169128511075, reg lambda=1.6647
945692658912, subsample=0.9, score=0.8800594345301865, total= 28.9s
[CV] class weight=balanced, colsample bytree=1.0, learning rate=0.425715
8970388948, max depth=2, min child weight=4, n estimators=390, num leave
s=30, objective=binary, reg alpha=3.6622169128511075, reg lambda=1.66479
45692658912, subsample=0.9
    class weight=balanced, colsample bytree=1.0, learning rate=0.42571
58970388948, max_depth=2, min_child_weight=4, n_estimators=390, num_leav
es=30, objective=binary, reg_alpha=3.6622169128511075, reg_lambda=1.6647
945692658912, subsample=0.9, score=0.8844177739677097, total= 27.6s
[CV] class_weight=balanced, colsample_bytree=0.7, learning_rate=0.147857
02319441468, max_depth=1, min_child_weight=4, n_estimators=116, num_leav
es=7, objective=binary, reg alpha=2.218505863397641, reg lambda=2.204313
816648219, subsample=0.8
     class_weight=balanced, colsample_bytree=0.7, learning_rate=0.14785
702319441468, max depth=1, min child weight=4, n estimators=116, num lea
ves=7, objective=binary, reg alpha=2.218505863397641, reg lambda=2.20431
3816648219, subsample=0.8, score=0.8077005468997113, total=
[CV] class weight=balanced, colsample bytree=0.7, learning rate=0.147857
02319441468, max_depth=1, min_child_weight=4, n_estimators=116, num_leav
es=7, objective=binary, reg_alpha=2.218505863397641, reg_lambda=2.204313
816648219, subsample=0.8
[CV] class_weight=balanced, colsample_bytree=0.7, learning_rate=0.14785
702319441468, max_depth=1, min_child_weight=4, n_estimators=116, num_lea
ves=7, objective=binary, reg_alpha=2.218505863397641, reg_lambda=2.20431
3816648219, subsample=0.8, score=0.8012990143561174, total=
[CV] class_weight=balanced, colsample_bytree=0.7, learning_rate=0.147857
02319441468, max_depth=1, min_child_weight=4, n_estimators=116, num_leav
es=7, objective=binary, reg alpha=2.218505863397641, reg lambda=2.204313
816648219, subsample=0.8
[CV] class_weight=balanced, colsample_bytree=0.7, learning_rate=0.14785
702319441468, max depth=1, min child weight=4, n estimators=116, num lea
ves=7, objective=binary, reg_alpha=2.218505863397641, reg_lambda=2.20431
3816648219, subsample=0.8, score=0.808684235503031, total=
[Parallel(n_jobs=1)]: Done 15 out of 15 | elapsed: 10.0min finished
LGB: {'train_dataset': {'Accuracy': 0.8677, 'AUC': 0.9429}, 'validation_
```

dataset': {'Accuracy': 0.8464, 'AUC': 0.8916}}

es=30, objective=binary, reg alpha=3.6622169128511075, reg lambda=1.6647

CatBoostClassifier

```
In [64]:
         from catboost import CatBoostClassifier
         def cat_model(folds, param_comb, X_train, y_train, X_val, y_val, save_fi
         le):
             11 11 11
             skf = StratifiedKFold(n splits=folds, shuffle = True, random state =
         123)
             cat = CatBoostClassifier( random state=123)
             params = \{'depth': [6,7,8,9,10],
                    'iterations':[250,100,500,1000],
                    'learning rate':[0.03,0.001,0.01,0.1,0.2,0.3],
                    'l2 leaf reg':[3,1,5,10,100],
                    'border_count':[32,5,10,20,50,100],
                    'ctr_border_count':[50,5,10,20,100,200]}
             model cat = RandomizedSearchCV(estimator=cat,
                                              param distributions=params,
                                              n_iter=param_comb,
                                              scoring='roc_auc',
                                              cv=skf.split(X_train, y_train),
                                              verbose=3,
                                              random_state=123)
             model_cat.fit(X_train, y_train,)
             scores = dict()
             scores["train dataset"] = {
                  "Accuracy": np.round(accuracy_score(model_cat.best_estimator_.pr
         edict(X_train), y_train), 4),
                  "AUC": np.round(roc_auc_score(y_train, model_cat.best_estimator_
          .predict_proba(X_train)[:, 1]), 4)
             scores["validation dataset"] = {
                  "Accuracy":np.round(accuracy_score(model_cat.best_estimator .pre
         dict(x_test), y_test), 4),
                  "AUC": np.round(roc_auc_score(y_test, model_cat.best_estimator_.
         predict proba(x test)[:, 1]), 4)
             pickle.dump(model_cat.best_estimator_, open(save_file, 'wb'))
             return model cat, scores
```

```
In [65]: folds = 3
    param_comb = 5
    cat = cat_model(folds, param_comb, X_train, y_train,x_test, y_test ,'ca
    t.sav')
    print(f"cat: {cat[1]}")
    model_lgb = pickle.load(open('cat.sav', 'rb'))
```

Fitting 3 folds for each of 5 candidates, totalling 15 fits [CV] learning_rate=0.2, l2_leaf_reg=5, iterations=100, depth=7, ctr_bord er_count=20, border_count=100

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

0:	learn: 0.5381766	total: 538ms	remaining:	53.35
1:	learn: 0.4496596	total: 715ms	remaining:	
2:	learn: 0.3943722	total: 883ms	remaining:	
3:	learn: 0.3601417	total: 1.04s	remaining:	
4:	learn: 0.3382864	total: 1.19s	remaining:	
5:	learn: 0.3249410	total: 1.34s	remaining:	
6:	learn: 0.3151989	total: 1.545	remaining:	
7:	learn: 0.3081621	total: 1.64s	remaining:	
8:	learn: 0.3027788	total: 1.77s	remaining:	
9:	learn: 0.2985392	total: 1.7/3	•	17.1s
			remaining:	
10:	learn: 0.2945980	total: 2.02s	remaining:	
11:	learn: 0.2913805	total: 2.16s	remaining:	
12:	learn: 0.2888245	total: 2.29s	remaining:	
13:	learn: 0.2862909	total: 2.41s	remaining:	
14:	learn: 0.2839139	total: 2.54s	remaining:	
15:	learn: 0.2818099	total: 2.68s	remaining:	
16:	learn: 0.2799086	total: 2.81s	remaining:	
17:	learn: 0.2778067	total: 2.94s	remaining:	
18:	learn: 0.2757857	total: 3.06s	remaining:	
19:	learn: 0.2738579	total: 3.18s	remaining:	
20:	learn: 0.2722430	total: 3.32s	remaining:	12.5s
21:	learn: 0.2705826	total: 3.45s	remaining:	12.2s
22:	learn: 0.2688878	total: 3.6s	remaining:	12s
23:	learn: 0.2674140	total: 3.72s	remaining:	11.8s
24:	learn: 0.2659134	total: 3.86s	remaining:	11.6s
25:	learn: 0.2644677	total: 3.98s	remaining:	
26:	learn: 0.2629573	total: 4.13s	remaining:	
27:	learn: 0.2613876	total: 4.25s	remaining:	
28:	learn: 0.2602688	total: 4.38s	remaining:	
29:	learn: 0.2590294	total: 4.5s	remaining:	
30:	learn: 0.2577282	total: 4.64s	remaining:	
31:	learn: 0.2565837	total: 4.77s	remaining:	
32:	learn: 0.2553450	total: 4.91s	remaining:	
33:	learn: 0.2542720	total: 5.04s	remaining:	
34:	learn: 0.2531253	total: 5.18s	remaining:	
35:	learn: 0.2518905	total: 5.31s	remaining:	
36:	learn: 0.2507193	total: 5.46s	remaining:	
37:	learn: 0.2495448	total: 5.59s	remaining:	
38:	learn: 0.2484476	total: 5.73s	remaining:	
39:	learn: 0.2474879	total: 5.89s	remaining:	
	learn: 0.2464846			
40:		total: 6.07s	remaining:	
41:	learn: 0.2456376	total: 6.22s	remaining:	
42:	learn: 0.2446581	total: 6.39s	remaining:	
43:	learn: 0.2436670	total: 6.54s	remaining:	
44:	learn: 0.2427970	total: 6.72s	remaining:	
45:	learn: 0.2419615	total: 6.86s	remaining:	
46:	learn: 0.2410798	total: 7.02s	remaining:	
47:	learn: 0.2402033	total: 7.14s	remaining:	
48:	learn: 0.2394002	total: 7.28s	remaining:	
49:	learn: 0.2385762	total: 7.4s	remaining:	
50:	learn: 0.2377679	total: 7.53s	remaining:	
51:	learn: 0.2369737	total: 7.65s	remaining:	
52:	learn: 0.2361693	total: 7.79s	remaining:	
53:	learn: 0.2355440	total: 7.91s	remaining:	6.73s
54:	learn: 0.2349009	total: 8.05s	remaining:	
55:	learn: 0.2341407	total: 8.17s	remaining:	
56:	learn: 0.2334434	total: 8.3s	remaining:	6.26s
57:	learn: 0.2326556	total: 8.43s	remaining:	
			J	

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59:
                                                  remaining: 5.79s
        learn: 0.2313473
                                 total: 8.68s
60:
        learn: 0.2307048
                                 total: 8.82s
                                                  remaining: 5.64s
61:
                                                  remaining: 5.48s
        learn: 0.2300222
                                 total: 8.94s
62:
        learn: 0.2294036
                                 total: 9.08s
                                                  remaining: 5.33s
63:
        learn: 0.2286160
                                 total: 9.22s
                                                  remaining: 5.19s
64:
        learn: 0.2279639
                                 total: 9.36s
                                                  remaining: 5.04s
65:
        learn: 0.2272124
                                 total: 9.5s
                                                  remaining: 4.89s
66:
        learn: 0.2265350
                                 total: 9.65s
                                                  remaining: 4.75s
67:
        learn: 0.2257915
                                 total: 9.79s
                                                  remaining: 4.61s
68:
        learn: 0.2251167
                                 total: 9.94s
                                                  remaining: 4.47s
                                                  remaining: 4.32s
69:
        learn: 0.2244312
                                 total: 10.1s
70:
                                 total: 10.2s
        learn: 0.2238277
                                                  remaining: 4.18s
71:
        learn: 0.2232930
                                 total: 10.4s
                                                  remaining: 4.03s
72:
        learn: 0.2226134
                                 total: 10.5s
                                                  remaining: 3.88s
73:
        learn: 0.2219886
                                 total: 10.6s
                                                  remaining: 3.74s
74:
                                 total: 10.8s
                                                  remaining: 3.59s
        learn: 0.2212872
75:
        learn: 0.2208617
                                 total: 10.9s
                                                  remaining: 3.44s
76:
        learn: 0.2203368
                                 total: 11s
                                                  remaining: 3.29s
77:
        learn: 0.2197683
                                 total: 11.2s
                                                  remaining: 3.15s
78:
        learn: 0.2192601
                                 total: 11.3s
                                                  remaining: 3s
79:
        learn: 0.2187690
                                 total: 11.4s
                                                  remaining: 2.86s
80:
        learn: 0.2182088
                                 total: 11.6s
                                                  remaining: 2.72s
                                 total: 11.7s
81:
        learn: 0.2177495
                                                  remaining: 2.57s
82:
        learn: 0.2172470
                                 total: 11.8s
                                                  remaining: 2.43s
83:
        learn: 0.2167271
                                 total: 12s
                                                  remaining: 2.28s
84:
        learn: 0.2162661
                                 total: 12.1s
                                                  remaining: 2.14s
85:
        learn: 0.2158132
                                 total: 12.3s
                                                  remaining: 1.99s
                                                  remaining: 1.85s
86:
                                 total: 12.4s
        learn: 0.2153383
87:
                                 total: 12.5s
        learn: 0.2148406
                                                  remaining: 1.71s
88:
        learn: 0.2143740
                                 total: 12.7s
                                                  remaining: 1.56s
89:
        learn: 0.2138810
                                 total: 12.8s
                                                  remaining: 1.42s
90:
        learn: 0.2134074
                                 total: 12.9s
                                                  remaining: 1.28s
91:
        learn: 0.2129286
                                 total: 13.1s
                                                  remaining: 1.14s
92:
        learn: 0.2125038
                                 total: 13.2s
                                                  remaining: 995ms
93:
        learn: 0.2119318
                                 total: 13.3s
                                                  remaining: 852ms
94:
        learn: 0.2115180
                                 total: 13.5s
                                                  remaining: 709ms
95:
        learn: 0.2109555
                                 total: 13.6s
                                                  remaining: 567ms
96:
                                 total: 13.7s
                                                  remaining: 425ms
        learn: 0.2105389
97:
        learn: 0.2100934
                                 total: 13.9s
                                                  remaining: 283ms
98:
        learn: 0.2096323
                                 total: 14s
                                                  remaining: 142ms
99:
        learn: 0.2093007
                                 total: 14.1s
                                                  remaining: Ous
[CV]
      learning_rate=0.2, 12_leaf_reg=5, iterations=100, depth=7, ctr_bor
der count=20, border count=100, score=0.871948197038151, total= 24.6s
[CV] learning_rate=0.2, l2_leaf_reg=5, iterations=100, depth=7, ctr_bord
er_count=20, border_count=100
[Parallel(n jobs=1)]: Done
                             1 out of
                                         1 | elapsed:
                                                         27.6s remaining:
0.0s
```

total: 8.56s

58:

learn: 0.2319460

remaining: 5.95s

31: learn: 0.2563156 total: 4.15s remaining: 8.82s 32: learn: 0.2551909 total: 4.28s remaining: 8.68s 33: learn: 0.2539092 total: 4.41s remaining: 8.56s 34: learn: 0.2526994 total: 4.53s remaining: 8.42s 35: learn: 0.2514082 total: 4.66s remaining: 8.28s 36: learn: 0.2503732 total: 4.78s remaining: 8.14s 37: learn: 0.2494231 total: 4.91s remaining: 8.01s 38: learn: 0.2484540 total: 5.03s remaining: 7.86s 39: learn: 0.2474041 total: 5.16s remaining: 7.74s 40: learn: 0.2463958 total: 5.29s remaining: 7.5s 41: learn: 0.2445399 total: 5.43s remaining: 7.37s 42: learn: 0.2445699 total: 5.6					
1: learn: 0.4499502 total: 278ms remaining: 13.6s	0:	learn: 0.5384644	total: 145ms	remaining: 14.4	4s
2: learn: 0.3947480 total: 424ms remaining: 13.7s 3: learn: 0.3387864 total: 714ms remaining: 13.6s 4: learn: 0.3377864 total: 714ms remaining: 13.6s 6: learn: 0.3155049 total: 994ms remaining: 13.2s 7: learn: 0.3084860 total: 1.15s remaining: 12.6s 8: learn: 0.3031588 total: 1.25s remaining: 12.6s 9: learn: 0.2988258 total: 1.25s remaining: 12.6s 10: learn: 0.2953773 total: 1.36s remaining: 12.3s 10: learn: 0.2953773 total: 1.49s remaining: 12.5s 11: learn: 0.2921087 total: 1.6s remaining: 11.7s 12: learn: 0.2865566 total: 1.86s remaining: 11.6s 13: learn: 0.2865566 total: 1.86s remaining: 11.6s 13: learn: 0.2865566 total: 1.86s remaining: 11.6s 14: learn: 0.2818787 total: 2.1s remaining: 11.5s 16: learn: 0.2776971 total: 2.3s remaining: 10.7s 17: learn: 0.2775671 total: 2.3s remaining: 10.7s 18: learn: 0.2756631 total: 2.23s remaining: 10.7s 18: learn: 0.2756631 total: 2.49s remaining: 10.7s 19: learn: 0.2756631 total: 2.49s remaining: 10.4s 20: learn: 0.2717986 total: 2.74s remaining: 10.3s 21: learn: 0.2699538 total: 2.74s remaining: 10.3s 22: learn: 0.2665881 total: 2.74s remaining: 10.3s 23: learn: 0.2665864 total: 3.24s remaining: 9.82s 24: learn: 0.2655042 total: 3.24s remaining: 9.82s 25: learn: 0.2626816 total: 3.49s remaining: 9.82s 28: learn: 0.2626816 total: 3.49s remaining: 9.83s 28: learn: 0.2626816 total: 3.7s remaining: 9.83s 28: learn: 0.2626816 total: 3.49s remaining: 9.83s 29: learn: 0.2587175 total: 3.8s remaining: 9.39s 29: learn: 0.2587175 total: 3.8s remaining: 9.39s 29: learn: 0.2587899 total: 4.8s remaining: 9.39s 29: learn: 0.254082 total: 4.6s remaining: 7.5s 20: learn: 0.254084 total: 5.6s remaining: 7.74s 20: learn: 0.254084 total: 5.6s remaining: 7.74s 20: learn: 0.254084 total: 5.6s remaining: 7.74s 20: learn: 0.253099 total: 4.8s remaining: 7.74s 20: learn: 0.253099 total: 4.8s remaining: 6.8s 21: learn: 0.234041 total: 5.6s remaining: 7.74s 22: learn: 0.235809 total: 5.6s remaining: 7.74s 23: learn: 0.248459 total: 5.6s remaining: 7.74s 24: learn: 0.248459 total: 5.6s remaining					
3: learn: 0.3587550 total: 566ms remaining: 13.6s 4: learn: 0.3347864 total: 714ms remaining: 13.6s 5: learn: 0.3249560 total: 866ms remaining: 13.5s 6: learn: 0.3155049 total: 994ms remaining: 13.5s 7: learn: 0.3081860 total: 1.11s remaining: 12.8s 8: learn: 0.3081588 total: 1.36s remaining: 12.8s 9: learn: 0.2988258 total: 1.36s remaining: 12.8s 10: learn: 0.2953773 total: 1.49s remaining: 12.5s 11: learn: 0.2890483 total: 1.36s remaining: 11.7s 12: learn: 0.2890483 total: 1.73s remaining: 11.6s 13: learn: 0.28865566 total: 1.86s remaining: 11.6s 14: learn: 0.2842340 total: 1.98s remaining: 11.4s 14: learn: 0.2842340 total: 2.1s remaining: 11.2s 15: learn: 0.2818787 total: 2.1s remaining: 10.9s 17: learn: 0.2776971 total: 2.36s remaining: 10.9s 17: learn: 0.27756631 total: 2.49s remaining: 10.7s 18: learn: 0.27756631 total: 2.49s remaining: 10.4s 19: learn: 0.2735499 total: 2.6ss remaining: 10.4s 20: learn: 0.269538 total: 2.74s remaining: 10.4s 21: learn: 0.269538 total: 2.74s remaining: 10.4s 22: learn: 0.2685881 total: 2.99s remaining: 10.4s 23: learn: 0.26670374 total: 3.1s remaining: 19.82s 24: learn: 0.26570374 total: 3.1s remaining: 9.82s 25: learn: 0.2640679 total: 3.37s remaining: 9.72s 26: learn: 0.2626816 total: 3.49s remaining: 9.72s 27: learn: 0.2626816 total: 3.49s remaining: 9.95s 28: learn: 0.2563156 total: 3.63s remaining: 9.95s 31: learn: 0.2563156 total: 4.03s remaining: 9.95s 32: learn: 0.2563156 total: 4.15s remaining: 8.96s 33: learn: 0.2563156 total: 4.15s remaining: 8.96s 34: learn: 0.2576994 total: 3.8s remaining: 8.96s 35: learn: 0.2443404 total: 5.9s remaining: 7.64s 36: learn: 0.2434245 total: 5.6s remaining: 7.74s 40: learn: 0.2434245 total: 5.6s remaining: 7.74s 41: learn: 0.2436396 total: 5.9s remaining: 7.6s 42: learn: 0.2436366 total: 5.9s remaining: 7.5s 43: learn: 0.2436366 total: 5.9s remaining: 7.5s 44: learn: 0.2436366 total: 5.9s remaining: 7.5s 55: learn: 0.2348218 total: 5.6s remaining: 6.75s 56: learn: 0.2348218 total: 6.8s remaining: 5.7s 56: learn: 0.2348218 total:				•	
4: learn: 0.3249560 total: 714ms remaining: 13.5s 6: learn: 0.3145969 total: 994ms remaining: 13.5s 7: learn: 0.3031588 total: 1.11s remaining: 12.8s 8: learn: 0.298258 total: 1.25s remaining: 12.6s 9: learn: 0.2953773 total: 1.49s remaining: 12.3s 10: learn: 0.2896483 total: 1.6s remaining: 11.7s 11: learn: 0.2896483 total: 1.6s remaining: 11.7s 12: learn: 0.2865566 total: 1.8s remaining: 11.6s 13: learn: 0.2818787 total: 2.1s remaining: 11.6s 14: learn: 0.2776631 total: 2.3s remaining: 10.7s 17: learn: 0.2756631 total: 2.49s remaining: <					
5: learn: 0.3155049 total: 860ms remaining: 13.5s 6: learn: 0.3084869 total: 1.11s remaining: 12.8s 7: learn: 0.3084860 total: 1.15s remaining: 12.8s 8: learn: 0.2988258 total: 1.25s remaining: 12.6s 9: learn: 0.2953773 total: 1.49s remaining: 11.5s 10: learn: 0.280483 total: 1.6s remaining: 11.6s 11: learn: 0.2865566 total: 1.8s remaining: 11.6s 13: learn: 0.2818787 total: 2.1s remaining: 11.6s 14: learn: 0.2797036 total: 2.3s remaining: 11.5s 15: learn: 0.2776971 total: 2.49s remaining: 10.9s 17: learn: 0.27756931 total: 2.49s remaining: 10.4s 18: learn: 0.277986 total: 2.74s remaining: 10.4s 20: learn: 0.2717986 total: 2.8s remaining: 10.1s 21: learn: 0.265881 total: 3.4s remaining: 9.25s 22: learn: 0.26640579 total: 3.4s remaining: 9.72s <td></td> <td></td> <td></td> <td></td> <td></td>					
6: learn: 0.3155049 total: 994ms remaining: 13.2s 7: learn: 0.3084860 total: 1.11s remaining: 12.8s 8: learn: 0.2081588 total: 1.25s remaining: 12.6s 9: learn: 0.2988258 total: 1.36s remaining: 12.6s 10: learn: 0.2951773 total: 1.49s remaining: 12.5s 11: learn: 0.2921087 total: 1.49s remaining: 11.5s 12: learn: 0.2890483 total: 1.73s remaining: 11.6s 13: learn: 0.28865566 total: 1.86s remaining: 11.6s 13: learn: 0.28842340 total: 1.98s remaining: 11.2s 15: learn: 0.2842340 total: 1.98s remaining: 11.2s 15: learn: 0.2776971 total: 2.1s remaining: 11.9s 17: learn: 0.2776971 total: 2.35s remaining: 10.9s 17: learn: 0.2756631 total: 2.49s remaining: 10.7s 18: learn: 0.2756631 total: 2.49s remaining: 10.7s 19: learn: 0.2756631 total: 2.49s remaining: 10.4s 19: learn: 0.275699 total: 2.74s remaining: 10.4s 20: learn: 0.2735499 total: 2.74s remaining: 10.3s 12: learn: 0.2699538 total: 2.86s remaining: 10.3s 12: learn: 0.2699538 total: 2.86s remaining: 10.3s 12: learn: 0.2669538 total: 2.99s remaining: 10.5s 12: learn: 0.2665042 total: 3.1s remaining: 9.72s 12: learn: 0.26655042 total: 3.24s remaining: 9.75s 12: learn: 0.26626816 total: 3.49s remaining: 9.759 16: learn: 0.26626816 total: 3.49s remaining: 9.38s 18: learn: 0.26613089 total: 3.63s remaining: 9.38s 19: learn: 0.2551909 total: 3.63s remaining: 9.39s 10: learn: 0.2575291 total: 4.03s remaining: 9.96s 11: learn: 0.2551909 total: 4.15s remaining: 8.86s 12: learn: 0.256994 total: 4.28s remaining: 8.86s 13: learn: 0.256994 total: 4.53s remaining: 8.86s 14: learn: 0.2563156 total: 4.15s remaining: 8.75s 14: learn: 0.2444509 total: 4.59s remaining: 7.74s 14: learn: 0.2444509 total: 5.69s remaining: 7.74s 15: learn: 0.2444509 total: 5.69s remaining: 7.74s 16: learn: 0.2444509 total: 5.69s remaining: 7.74s 17: learn: 0.238896 total: 5.96s remaining: 7.75s 18: learn: 0.238896 total: 6.48s remaining: 6.87s 19: learn: 0.238896 total: 6.48s remaining: 6.55s 10: learn: 0.2363666 total: 6.48s remaining: 6.55s 11: learn: 0.2363666 total: 6.48s remaining: 5.88s 15: learn: 0				•	
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8: learn: 0.3031588 total: 1.25s remaining: 12.36	6:	learn: 0.3155049	total: 994ms	remaining: 13.2	2s
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42:learn:0.2444509total:5.56sremaining:7.37s43:learn:0.2434245total:5.69sremaining:7.24s44:learn:0.2424634total:5.82sremaining:7.11s45:learn:0.2415850total:5.96sremaining:6.99s46:learn:0.2405643total:6.09sremaining:6.87s47:learn:0.2396486total:6.23sremaining:6.75s48:learn:0.2388896total:6.36sremaining:6.62s49:learn:0.2381297total:6.48sremaining:6.48s50:learn:0.2372458total:6.61sremaining:6.35s51:learn:0.2363969total:6.74sremaining:6.22s52:learn:0.2348256total:7.01sremaining:5.97s54:learn:0.2340818total:7.14sremaining:5.84s55:learn:0.23333138total:7.27sremaining:5.71s56:learn:0.2325828total:7.4sremaining:5.58s					
43:learn:0.2434245total:5.69sremaining:7.24s44:learn:0.2424634total:5.82sremaining:7.11s45:learn:0.2415850total:5.96sremaining:6.99s46:learn:0.2405643total:6.09sremaining:6.87s47:learn:0.2396486total:6.23sremaining:6.75s48:learn:0.2388896total:6.36sremaining:6.62s49:learn:0.2381297total:6.48sremaining:6.48s50:learn:0.2372458total:6.61sremaining:6.35s51:learn:0.2363969total:6.74sremaining:6.22s52:learn:0.236366total:6.88sremaining:6.1s53:learn:0.2348256total:7.01sremaining:5.97s54:learn:0.2340818total:7.14sremaining:5.71s55:learn:0.2325828total:7.27sremaining:5.71s				_	
44:learn:0.2424634total:5.82sremaining:7.11s45:learn:0.2415850total:5.96sremaining:6.99s46:learn:0.2405643total:6.09sremaining:6.87s47:learn:0.2396486total:6.23sremaining:6.75s48:learn:0.2388896total:6.36sremaining:6.62s49:learn:0.2381297total:6.48sremaining:6.48s50:learn:0.2372458total:6.61sremaining:6.35s51:learn:0.2363969total:6.74sremaining:6.22s52:learn:0.2356366total:6.88sremaining:6.1s53:learn:0.2348256total:7.01sremaining:5.97s54:learn:0.2340818total:7.14sremaining:5.71s56:learn:0.2325828total:7.4sremaining:5.58s				•	
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51:learn:0.2363969total:6.74sremaining:6.22s52:learn:0.2356366total:6.88sremaining:6.1s53:learn:0.2348256total:7.01sremaining:5.97s54:learn:0.2340818total:7.14sremaining:5.84s55:learn:0.2333138total:7.27sremaining:5.71s56:learn:0.2325828total:7.4sremaining:5.58s				_	
52:learn:0.2356366total:6.88sremaining:6.1s53:learn:0.2348256total:7.01sremaining:5.97s54:learn:0.2340818total:7.14sremaining:5.84s55:learn:0.2333138total:7.27sremaining:5.71s56:learn:0.2325828total:7.4sremaining:5.58s				•	
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55: learn: 0.2333138 total: 7.27s remaining: 5.71s 56: learn: 0.2325828 total: 7.4s remaining: 5.58s	54:	learn: 0.2340818	total: 7.14s	_	
56: learn: 0.2325828 total: 7.4s remaining: 5.58s				_	
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TOTAL PARTICIPATION TOTAL PARTITION STATE				_	
57. ICAI II. 0.2510507 COCAI. 7.555 I CHIAITIIII. 5.455	٠/.	16ai ii. 0.231030/	cocar. /.J35	i ciliatilitiig. 3.4	در

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59:
                                 total: 7.79s
                                                  remaining: 5.19s
        learn: 0.2305735
60:
        learn: 0.2299448
                                 total: 7.92s
                                                  remaining: 5.06s
61:
                                 total: 8.06s
                                                  remaining: 4.94s
        learn: 0.2291448
62:
        learn: 0.2283867
                                 total: 8.2s
                                                  remaining: 4.81s
63:
        learn: 0.2276479
                                 total: 8.33s
                                                  remaining: 4.69s
64:
        learn: 0.2270192
                                 total: 8.45s
                                                  remaining: 4.55s
65:
        learn: 0.2263027
                                 total: 8.57s
                                                  remaining: 4.42s
66:
        learn: 0.2257029
                                 total: 8.7s
                                                  remaining: 4.29s
67:
        learn: 0.2251084
                                 total: 8.83s
                                                  remaining: 4.15s
68:
        learn: 0.2244910
                                 total: 8.96s
                                                  remaining: 4.03s
                                 total: 9.08s
                                                  remaining: 3.89s
69:
        learn: 0.2238849
70:
        learn: 0.2232614
                                 total: 9.21s
                                                  remaining: 3.76s
71:
        learn: 0.2225548
                                 total: 9.34s
                                                  remaining: 3.63s
72:
        learn: 0.2218760
                                 total: 9.47s
                                                  remaining: 3.5s
73:
        learn: 0.2212739
                                 total: 9.6s
                                                  remaining: 3.37s
74:
                                                  remaining: 3.24s
        learn: 0.2207304
                                 total: 9.73s
75:
        learn: 0.2201937
                                 total: 9.85s
                                                  remaining: 3.11s
76:
        learn: 0.2196541
                                 total: 9.98s
                                                  remaining: 2.98s
77:
        learn: 0.2191427
                                                  remaining: 2.85s
                                 total: 10.1s
78:
        learn: 0.2185960
                                 total: 10.2s
                                                  remaining: 2.72s
79:
        learn: 0.2181483
                                 total: 10.3s
                                                  remaining: 2.59s
                                                  remaining: 2.46s
80:
        learn: 0.2176119
                                 total: 10.5s
81:
                                 total: 10.6s
        learn: 0.2172116
                                                  remaining: 2.33s
82:
        learn: 0.2166190
                                 total: 10.7s
                                                  remaining: 2.2s
83:
        learn: 0.2161214
                                 total: 10.9s
                                                  remaining: 2.07s
84:
        learn: 0.2155937
                                 total: 11s
                                                  remaining: 1.94s
85:
        learn: 0.2150214
                                 total: 11.1s
                                                  remaining: 1.81s
                                                  remaining: 1.68s
86:
                                 total: 11.3s
        learn: 0.2144919
87:
                                 total: 11.4s
        learn: 0.2140351
                                                  remaining: 1.55s
88:
        learn: 0.2135741
                                 total: 11.5s
                                                  remaining: 1.42s
89:
        learn: 0.2131098
                                 total: 11.6s
                                                  remaining: 1.29s
90:
        learn: 0.2125715
                                 total: 11.8s
                                                  remaining: 1.17s
91:
                                 total: 11.9s
        learn: 0.2121098
                                                  remaining: 1.04s
92:
        learn: 0.2116272
                                 total: 12s
                                                  remaining: 906ms
93:
        learn: 0.2111464
                                 total: 12.2s
                                                  remaining: 777ms
94:
        learn: 0.2106853
                                 total: 12.3s
                                                  remaining: 648ms
95:
        learn: 0.2102699
                                 total: 12.4s
                                                  remaining: 518ms
96:
                                 total: 12.6s
                                                  remaining: 389ms
        learn: 0.2097969
97:
        learn: 0.2093403
                                 total: 12.7s
                                                  remaining: 259ms
98:
        learn: 0.2089037
                                 total: 12.8s
                                                  remaining: 130ms
99:
        learn: 0.2084186
                                 total: 13s
                                                  remaining: Ous
[CV]
      learning_rate=0.2, 12_leaf_reg=5, iterations=100, depth=7, ctr_bor
der count=20, border count=100, score=0.8710908834946937, total= 20.0s
[CV] learning_rate=0.2, l2_leaf_reg=5, iterations=100, depth=7, ctr_bord
er_count=20, border_count=100
[Parallel(n_jobs=1)]: Done 2 out of
                                         2 | elapsed:
                                                         50.7s remaining:
0.0s
```

total: 7.66s

remaining: 5.32s

58:

learn: 0.2312109

0:	learn: 0.5402718	total: 157ms	remaining: 15.5s
1:	learn: 0.4512652	total: 287ms	remaining: 14.1s
2:	learn: 0.3954657	total: 437ms	remaining: 14.1s
3:	learn: 0.3614487	total: 600ms	remaining: 14.4s
4:	learn: 0.3403323	total: 731ms	remaining: 13.9s
5:	learn: 0.3265723	total: 874ms	remaining: 13.7s
6:	learn: 0.3162622	total: 1s	remaining: 13.3s
7:	learn: 0.3091823	total: 1.14s	remaining: 13.1s
8:	learn: 0.3040409	total: 1.143	remaining: 13.13
9:	learn: 0.2996697	total: 1.38s	_
			remaining: 12.4s
10:	learn: 0.2961380	total: 1.5s	remaining: 12.2s
11:	learn: 0.2928209	total: 1.63s	remaining: 12s
12:	learn: 0.2900174	total: 1.75s	remaining: 11.7s
13:	learn: 0.2875695	total: 1.88s	remaining: 11.5s
14:	learn: 0.2853193	total: 2s	remaining: 11.3s
15:	learn: 0.2830746	total: 2.12s	remaining: 11.2s
16:	learn: 0.2810316	total: 2.25s	remaining: 11s
17:	learn: 0.2790973	total: 2.38s	remaining: 10.8s
18:	learn: 0.2770101	total: 2.52s	remaining: 10.7s
19:	learn: 0.2752850	total: 2.63s	remaining: 10.5s
20:	learn: 0.2733989	total: 2.76s	remaining: 10.4s
21:	learn: 0.2717798	total: 2.88s	remaining: 10.45
22:	learn: 0.2701442	total: 3s	remaining: 10.23
23:	learn: 0.2685390		•
		total: 3.12s	remaining: 9.89s
24:	learn: 0.2667989	total: 3.25s	remaining: 9.77s
25:	learn: 0.2652612	total: 3.4s	remaining: 9.67s
26:	learn: 0.2639505	total: 3.54s	remaining: 9.58s
27:	learn: 0.2627724	total: 3.67s	remaining: 9.45s
28:	learn: 0.2613578	total: 3.81s	remaining: 9.34s
29:	learn: 0.2601420	total: 3.93s	remaining: 9.17s
30:	learn: 0.2588863	total: 4.06s	remaining: 9.03s
31:	learn: 0.2574970	total: 4.2s	remaining: 8.92s
32:	learn: 0.2563539	total: 4.33s	remaining: 8.79s
33:	learn: 0.2551378	total: 4.46s	remaining: 8.65s
34:	learn: 0.2540526	total: 4.58s	remaining: 8.51s
35:	learn: 0.2528380	total: 4.71s	remaining: 8.36s
36:	learn: 0.2517036	total: 4.84s	remaining: 8.25s
37:	learn: 0.2507705	total: 4.96s	remaining: 8.1s
38:	learn: 0.2496881	total: 5.09s	remaining: 7.96s
39:	learn: 0.2487324	total: 5.21s	remaining: 7.81s
			_
40:	learn: 0.2477536	total: 5.34s	remaining: 7.69s
41:	learn: 0.2467338	total: 5.46s	remaining: 7.54s
42:	learn: 0.2458264	total: 5.6s	remaining: 7.42s
43:	learn: 0.2448182	total: 5.73s	remaining: 7.29s
44:	learn: 0.2438740	total: 5.87s	remaining: 7.17s
45:	learn: 0.2429948	total: 6s	remaining: 7.04s
46:	learn: 0.2422572	total: 6.17s	remaining: 6.96s
47:	learn: 0.2414016	total: 6.34s	remaining: 6.87s
48:	learn: 0.2405857	total: 6.52s	remaining: 6.79s
49:	learn: 0.2397888	total: 6.68s	remaining: 6.68s
50:	learn: 0.2389168	total: 6.84s	remaining: 6.57s
51:	learn: 0.2380359	total: 7s	remaining: 6.46s
52:	learn: 0.2373125	total: 7.14s	remaining: 6.33s
53:	learn: 0.2365884	total: 7.143	remaining: 6.2s
54:	learn: 0.2357777	total: 7.283	remaining: 6.06s
	learn: 0.2350156		•
55:		total: 7.55s	remaining: 5.93s
56:	learn: 0.2343287	total: 7.67s	remaining: 5.79s
57:	learn: 0.2335547	total: 7.79s	remaining: 5.64s

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58:
        learn: 0.2328528
                                 total: 7.92s
                                                  remaining: 5.5s
59:
        learn: 0.2320714
                                 total: 8.05s
                                                  remaining: 5.37s
60:
        learn: 0.2312848
                                 total: 8.18s
                                                  remaining: 5.23s
61:
        learn: 0.2304338
                                 total: 8.38s
                                                  remaining: 5.13s
62:
        learn: 0.2297740
                                 total: 8.61s
                                                  remaining: 5.05s
63:
        learn: 0.2290004
                                 total: 8.81s
                                                  remaining: 4.96s
64:
        learn: 0.2283137
                                 total: 8.99s
                                                  remaining: 4.84s
65:
        learn: 0.2277261
                                 total: 9.14s
                                                  remaining: 4.71s
66:
        learn: 0.2269307
                                 total: 9.3s
                                                  remaining: 4.58s
67:
        learn: 0.2262797
                                 total: 9.42s
                                                  remaining: 4.43s
68:
        learn: 0.2256765
                                 total: 9.55s
                                                  remaining: 4.29s
69:
        learn: 0.2249794
                                 total: 9.69s
                                                  remaining: 4.15s
70:
        learn: 0.2243451
                                 total: 9.82s
                                                  remaining: 4.01s
71:
        learn: 0.2237719
                                 total: 9.95s
                                                  remaining: 3.87s
72:
                                 total: 10.1s
        learn: 0.2231718
                                                  remaining: 3.73s
73:
        learn: 0.2225168
                                 total: 10.2s
                                                  remaining: 3.59s
74:
        learn: 0.2219212
                                 total: 10.3s
                                                  remaining: 3.45s
                                 total: 10.5s
                                                  remaining: 3.32s
75:
        learn: 0.2214172
76:
        learn: 0.2208735
                                 total: 10.7s
                                                  remaining: 3.19s
77:
        learn: 0.2203283
                                 total: 10.8s
                                                  remaining: 3.05s
78:
        learn: 0.2197816
                                 total: 11s
                                                  remaining: 2.91s
79:
        learn: 0.2192344
                                 total: 11.1s
                                                  remaining: 2.77s
80:
        learn: 0.2187059
                                 total: 11.2s
                                                  remaining: 2.63s
81:
        learn: 0.2182207
                                 total: 11.4s
                                                  remaining: 2.49s
82:
        learn: 0.2176895
                                 total: 11.5s
                                                  remaining: 2.35s
                                 total: 11.6s
83:
        learn: 0.2171037
                                                  remaining: 2.22s
84:
        learn: 0.2165787
                                 total: 11.9s
                                                  remaining: 2.1s
85:
        learn: 0.2160422
                                 total: 12.2s
                                                  remaining: 1.98s
86:
        learn: 0.2155228
                                 total: 12.4s
                                                  remaining: 1.85s
87:
        learn: 0.2149124
                                 total: 12.6s
                                                  remaining: 1.72s
88:
        learn: 0.2144471
                                 total: 12.8s
                                                  remaining: 1.58s
89:
        learn: 0.2138603
                                 total: 13s
                                                  remaining: 1.44s
90:
        learn: 0.2134447
                                 total: 13.1s
                                                  remaining: 1.3s
91:
        learn: 0.2129940
                                 total: 13.3s
                                                  remaining: 1.16s
92:
        learn: 0.2125769
                                 total: 13.5s
                                                  remaining: 1.02s
93:
                                                  remaining: 873ms
        learn: 0.2121177
                                 total: 13.7s
                                 total: 13.8s
94:
        learn: 0.2117307
                                                  remaining: 728ms
95:
        learn: 0.2112279
                                 total: 14s
                                                  remaining: 583ms
96:
        learn: 0.2107622
                                 total: 14.1s
                                                  remaining: 437ms
97:
        learn: 0.2102221
                                 total: 14.3s
                                                  remaining: 291ms
98:
                                 total: 14.4s
        learn: 0.2098451
                                                  remaining: 145ms
99:
        learn: 0.2094572
                                 total: 14.5s
                                                  remaining: Ous
[CV]
      learning_rate=0.2, 12_leaf_reg=5, iterations=100, depth=7, ctr_bor
der_count=20, border_count=100, score=0.8787270697952091, total= 24.0s
[CV] learning_rate=0.3, 12_leaf_reg=3, iterations=250, depth=7, ctr_bord
er_count=10, border_count=50
0:
        learn: 0.4793271
                                 total: 127ms
                                                  remaining: 31.6s
1:
        learn: 0.3860321
                                 total: 269ms
                                                  remaining: 33.3s
2:
        learn: 0.3430470
                                 total: 390ms
                                                  remaining: 32.1s
                                 total: 492ms
3:
        learn: 0.3203540
                                                  remaining: 30.2s
4:
                                                  remaining: 31.1s
        learn: 0.3079255
                                 total: 634ms
5:
        learn: 0.3001816
                                 total: 740ms
                                                  remaining: 30.1s
6:
        learn: 0.2940640
                                 total: 860ms
                                                  remaining: 29.9s
7:
        learn: 0.2889041
                                 total: 966ms
                                                  remaining: 29.2s
8:
        learn: 0.2852757
                                 total: 1.07s
                                                  remaining: 28.6s
9:
        learn: 0.2816791
                                 total: 1.19s
                                                  remaining: 28.6s
10:
        learn: 0.2790049
                                 total: 1.3s
                                                  remaining: 28.2s
11:
        learn: 0.2760071
                                 total: 1.42s
                                                  remaining: 28.1s
                                 total: 1.52s
12:
        learn: 0.2731579
                                                  remaining: 27.8s
```

4.3	1 0 0705200			
13:	learn: 0.2705300	total: 1.64s	remaining:	
14:	learn: 0.2681482	total: 1.75s	remaining:	
15:	learn: 0.2660253	total: 1.86s	remaining:	27.3s
16:	learn: 0.2637305	total: 1.99s	remaining:	27.3s
17:	learn: 0.2614165	total: 2.1s	remaining:	27.1s
18:	learn: 0.2594370	total: 2.23s	remaining:	27.1s
19:	learn: 0.2572781	total: 2.35s	remaining:	
20:	learn: 0.2554010	total: 2.48s	remaining:	
21:	learn: 0.2537080	total: 2.59s	remaining:	
22:	learn: 0.2522154	total: 2.71s	remaining:	
23:	learn: 0.2507304	total: 2.713	remaining:	
24:	learn: 0.2493250	total: 2.92s	•	
			remaining:	
25:	learn: 0.2476553	total: 3.06s	remaining:	
26:	learn: 0.2462043	total: 3.18s	remaining:	
27:	learn: 0.2447267	total: 3.3s	remaining:	
28:	learn: 0.2430970	total: 3.42s	remaining:	
29:	learn: 0.2417827	total: 3.53s	remaining:	
30:	learn: 0.2403828	total: 3.66s	remaining:	25.9s
31:	learn: 0.2393013	total: 3.78s	remaining:	25.7s
32:	learn: 0.2380430	total: 3.91s	remaining:	25.7s
33:	learn: 0.2368174	total: 4.02s	remaining:	
34:	learn: 0.2355703	total: 4.15s	remaining:	
35:	learn: 0.2345431	total: 4.26s	remaining:	
36:	learn: 0.2336524	total: 4.37s	remaining:	
37:	learn: 0.2323451	total: 4.48s	remaining:	
38:	learn: 0.2312741	total: 4.59s	remaining:	
39:	learn: 0.2302570	total: 4.7s	remaining:	
			•	
40:	learn: 0.2292828	total: 4.83s	remaining:	
41:	learn: 0.2284306	total: 4.94s	remaining:	
42:	learn: 0.2274113	total: 5.06s	remaining:	
43:	learn: 0.2263520	total: 5.17s	remaining:	
44:	learn: 0.2252890	total: 5.3s	remaining:	
45:	learn: 0.2243367	total: 5.42s	remaining:	
46:	learn: 0.2234122	total: 5.54s	remaining:	23.9s
47:	learn: 0.2224840	total: 5.66s	remaining:	23.8s
48:	learn: 0.2214538	total: 5.78s	remaining:	23.7s
49:	learn: 0.2204886	total: 5.89s	remaining:	23.6s
50:	learn: 0.2195757	total: 6.02s	remaining:	23.5s
51:	learn: 0.2185903	total: 6.14s	remaining:	23.4s
52:	learn: 0.2177153	total: 6.27s	remaining:	
53:	learn: 0.2169295	total: 6.38s	remaining:	
54:	learn: 0.2161427	total: 6.51s	remaining:	
55:	learn: 0.2153890	total: 6.63s	remaining:	
56:	learn: 0.2145987	total: 6.75s	remaining:	
57:	learn: 0.2143387	total: 6.88s	remaining:	
			•	
58:	learn: 0.2129389	total: 7s	remaining:	
59:	learn: 0.2122173	total: 7.11s	remaining:	
60:	learn: 0.2115142	total: 7.24s	remaining:	
61:	learn: 0.2108533	total: 7.35s	remaining:	
62:	learn: 0.2101416	total: 7.48s	remaining:	22.2s
63:	learn: 0.2094934	total: 7.59s	remaining:	22.1s
64:	learn: 0.2088698	total: 7.72s	remaining:	22s
65:	learn: 0.2079729	total: 7.86s	remaining:	21.9s
66:	learn: 0.2074169	total: 7.98s	remaining:	
67:	learn: 0.2068162	total: 8.1s	remaining:	
68:	learn: 0.2062426	total: 8.22s	remaining:	
69:	learn: 0.2056014	total: 8.34s	remaining:	
70:	learn: 0.2049795	total: 8.46s	remaining:	
70. 71:	learn: 0.2044010	total: 8.403	remaining:	
/ 1 .	TC0111. 0.2044010	tota1. 0.3/5	i ciliatiitiik:	Z1.ZS

72:	learn: 0.2037338	total: 8.69s	remaining:	21.1s
73:	learn: 0.2031443	total: 8.82s	remaining:	21s
74:	learn: 0.2025271	total: 8.95s	remaining:	20.9s
75:	learn: 0.2019600	total: 9.05s	remaining:	20.7s
76:	learn: 0.2014236	total: 9.16s	remaining:	20.6s
77:	learn: 0.2008354	total: 9.26s	remaining:	20.4s
78:	learn: 0.2003001	total: 9.38s	remaining:	20.3s
79:	learn: 0.1995764	total: 9.52s	remaining:	
80:	learn: 0.1990315	total: 9.65s	remaining:	
81:	learn: 0.1984567	total: 9.78s	remaining:	20s
82:	learn: 0.1979590	total: 9.89s	remaining:	19.9s
83:	learn: 0.1974151	total: 10s	remaining:	19.8s
84:	learn: 0.1969147	total: 10.1s	remaining:	
85:	learn: 0.1963553	total: 10.3s	remaining:	
86:	learn: 0.1958119	total: 10.3s	remaining:	
87:	learn: 0.1952385	total: 10.4s	_	
			remaining:	19.3s
88:	learn: 0.1945757	total: 10.6s	remaining:	19.25
89:	learn: 0.1940552	total: 10.8s	remaining:	
90:	learn: 0.1935536	total: 10.9s	remaining:	19s
91:	learn: 0.1929742	total: 11s	remaining:	
92:	learn: 0.1925228	total: 11.2s	remaining:	18.9s
93:	learn: 0.1919917	total: 11.3s	remaining:	18.8s
94:	learn: 0.1915375	total: 11.5s	remaining:	18.7s
95:	learn: 0.1910269	total: 11.6s	remaining:	18.7s
96:	learn: 0.1906019	total: 11.8s	remaining:	18.6s
97:	learn: 0.1901547	total: 11.9s	remaining:	18.5s
98:	learn: 0.1895903	total: 12.1s	remaining:	18.4s
99:	learn: 0.1891246	total: 12.2s	remaining:	18.3s
100:	learn: 0.1886706	total: 12.4s	remaining:	18.2s
101:	learn: 0.1881860	total: 12.5s	remaining:	18.1s
102:	learn: 0.1876649	total: 12.6s	remaining:	18s
103:	learn: 0.1874069	total: 12.7s	remaining:	17.8s
104:	learn: 0.1868750	total: 12.9s	remaining:	17.7s
105:	learn: 0.1864372	total: 13s	remaining:	17.6s
106:	learn: 0.1860190	total: 13.1s	remaining:	
107:	learn: 0.1856076	total: 13.2s	remaining:	
108:	learn: 0.1851981	total: 13.3s	remaining:	
109:	learn: 0.1847440	total: 13.4s	remaining:	
110:	learn: 0.1843762	total: 13.6s	remaining:	17s
111:	learn: 0.1839669	total: 13.7s	remaining:	16.8s
112:	learn: 0.1835369	total: 13.8s	remaining:	16.7s
113:	learn: 0.1830860	total: 13.9s	remaining:	
114:	learn: 0.1827125	total: 14.1s	remaining:	
115:	learn: 0.1823911	total: 14.2s	remaining:	
116:	learn: 0.1819031	total: 14.23	remaining:	16.2s
110. 117:	learn: 0.1815214	total: 14.4s	remaining:	16.1s
117:	learn: 0.1813214	total: 14.45 total: 14.5s	remaining:	16.13 16s
	learn: 0.1806673	total: 14.6s	•	
119:			remaining:	
120:	learn: 0.1802427	total: 14.8s	remaining:	
121:	learn: 0.1799419	total: 14.9s	remaining:	
122:	learn: 0.1796314	total: 15s	remaining:	15.5s
123:	learn: 0.1793439	total: 15.1s	remaining:	
124:	learn: 0.1789626	total: 15.2s	remaining:	
125:	learn: 0.1784878	total: 15.3s	remaining:	
126:	learn: 0.1781515	total: 15.4s	remaining:	15s
127:	learn: 0.1777510	total: 15.6s	remaining:	14.8s
128:	learn: 0.1774036	total: 15.7s	remaining:	14.7s
129:	learn: 0.1769858	total: 15.8s	remaining:	
130:	learn: 0.1766936	total: 15.9s	remaining:	14.5s

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131:	learn: 0.1763330	total: 16.1s	remaining:	
132:	learn: 0.1759632	total: 16.2s	remaining:	14.2s
133:	learn: 0.1754600	total: 16.3s	remaining:	14.1s
134:	learn: 0.1749908	total: 16.4s	remaining:	
135:	learn: 0.1746530	total: 16.6s	remaining:	
136:	learn: 0.1742412	total: 16.7s	remaining:	
			•	
137:	learn: 0.1738305	total: 16.8s	remaining:	
138:	learn: 0.1734240	total: 16.9s	remaining:	
139:	learn: 0.1731240	total: 17s	remaining:	13.4s
140:	learn: 0.1727919	total: 17.2s	remaining:	13.3s
141:	learn: 0.1724129	total: 17.3s	remaining:	13.1s
142:	learn: 0.1720544	total: 17.4s	remaining:	
143:	learn: 0.1717615	total: 17.5s	remaining:	
144:	learn: 0.1713888	total: 17.6s	remaining:	
145:	learn: 0.1709778	total: 17.7s	remaining:	
146:	learn: 0.1705778	total: 17.73		
			remaining:	
147:	learn: 0.1703460	total: 18s	remaining:	
148:	learn: 0.1700866	total: 18.1s	remaining:	
149:	learn: 0.1697763	total: 18.2s	remaining:	
150:	learn: 0.1694770	total: 18.3s	remaining:	12s
151:	learn: 0.1690867	total: 18.4s	remaining:	11.9s
152:	learn: 0.1688143	total: 18.5s	remaining:	11.8s
153:	learn: 0.1685595	total: 18.7s	remaining:	
154:	learn: 0.1681752	total: 18.8s	remaining:	
155:	learn: 0.1678506	total: 18.9s	remaining:	
156:	learn: 0.1675026	total: 19s	remaining:	
			•	
157:	learn: 0.1671923	total: 19.2s	remaining:	
158:	learn: 0.1668133	total: 19.3s	remaining:	
159:	learn: 0.1664912	total: 19.4s	remaining:	
160:	learn: 0.1660862	total: 19.5s	remaining:	10.8s
161:	learn: 0.1657395	total: 19.7s	remaining:	10.7s
162:	learn: 0.1654356	total: 19.8s	remaining:	10.5s
163:	learn: 0.1651067	total: 19.9s	remaining:	10.4s
164:	learn: 0.1648088	total: 20s	remaining:	
165:	learn: 0.1645177	total: 20.1s	remaining:	
166:	learn: 0.1641941	total: 20.2s	remaining:	
167:	learn: 0.1638331	total: 20.4s	remaining:	
168:	learn: 0.1634771	total: 20.5s	remaining:	
169:	learn: 0.1630707	total: 20.6s	remaining:	
170:	learn: 0.1627267	total: 20.7s	remaining:	
171:	learn: 0.1623671	total: 20.9s	remaining:	
172:	learn: 0.1621282	total: 21s	remaining:	9.34s
173:	learn: 0.1618496	total: 21.1s	remaining:	9.22s
174:	learn: 0.1615192	total: 21.2s	remaining:	9.09s
175:	learn: 0.1612742	total: 21.3s	remaining:	
176:	learn: 0.1610268	total: 21.4s	remaining:	
177:	learn: 0.1607056	total: 21.6s	remaining:	
178:	learn: 0.1604213	total: 21.7s	remaining:	
178. 179:	learn: 0.1601122			
		total: 21.8s	remaining:	
180:	learn: 0.1597455	total: 21.9s	remaining:	
181:	learn: 0.1594364	total: 22.1s	remaining:	
182:	learn: 0.1590760	total: 22.2s	remaining:	
183:	learn: 0.1587690	total: 22.3s	remaining:	
184:	learn: 0.1585312	total: 22.4s	remaining:	7.88s
185:	learn: 0.1582487	total: 22.6s	remaining:	7.76s
186:	learn: 0.1579868	total: 22.7s	remaining:	
187:	learn: 0.1577371	total: 22.8s	remaining:	
188:	learn: 0.1574565	total: 22.9s	remaining:	
189:	learn: 0.1570736	total: 23s	remaining:	
±0,7.	ICALII. 0.13/0/30	COCUI. 233	i ciliatiitiik.	, . 2 / 3

190:	learn: 0.1567421	total: 23.2s	nomaining: 7 16c
190:	learn: 0.1565203	total: 23.3s	remaining: 7.16s remaining: 7.03s
191: 192:	learn: 0.1562004	total: 23.4s	remaining: 7.035
192. 193:	learn: 0.1559129		
193. 194:	learn: 0.1556143	total: 23.5s	remaining: 6.79s
		total: 23.6s	remaining: 6.67s
195:	learn: 0.1552715	total: 23.8s	remaining: 6.54s
196:	learn: 0.1550199	total: 23.9s	remaining: 6.42s
197:	learn: 0.1547046	total: 24s	remaining: 6.3s
198:	learn: 0.1543972	total: 24.1s	remaining: 6.18s
199:	learn: 0.1540936	total: 24.2s	remaining: 6.06s
200:	learn: 0.1539078	total: 24.4s	remaining: 5.94s
201:	learn: 0.1537055	total: 24.5s	remaining: 5.82s
202:	learn: 0.1534257	total: 24.6s	remaining: 5.7s
203:	learn: 0.1531514	total: 24.7s	remaining: 5.57s
204:	learn: 0.1528660	total: 24.8s	remaining: 5.45s
205:	learn: 0.1526252	total: 24.9s	remaining: 5.33s
206:	learn: 0.1523292	total: 25.1s	remaining: 5.2s
207:	learn: 0.1520265	total: 25.2s	remaining: 5.08s
208:	learn: 0.1517686	total: 25.3s	remaining: 4.96s
209:	learn: 0.1514765	total: 25.4s	remaining: 4.84s
210:	learn: 0.1512366	total: 25.5s	remaining: 4.72s
211:	learn: 0.1509699	total: 25.7s	remaining: 4.6s
212:	learn: 0.1507036	total: 25.8s	remaining: 4.48s
213:	learn: 0.1504819	total: 25.9s	remaining: 4.35s
214:	learn: 0.1502431	total: 26s	remaining: 4.23s
215:	learn: 0.1499463	total: 26.1s	remaining: 4.11s
216:	learn: 0.1496398	total: 26.2s	remaining: 3.99s
217:	learn: 0.1494483	total: 26.3s	remaining: 3.87s
218:	learn: 0.1492158	total: 26.5s	remaining: 3.75s
219:	learn: 0.1489250	total: 26.6s	remaining: 3.62s
220:	learn: 0.1487094	total: 26.7s	remaining: 3.5s
220:	learn: 0.1484524	total: 26.8s	remaining: 3.38s
222:	learn: 0.1481972	total: 20.83	remaining: 3.26s
222:	learn: 0.1479612	total: 27.1s	remaining: 3.14s
223:	learn: 0.1477793	total: 27.1s	remaining: 3.145
225:	learn: 0.1475340	total: 27.4s	remaining: 2.91s
226:	learn: 0.1472280	total: 27.5s	remaining: 2.79s
227:	learn: 0.1470359	total: 27.7s	remaining: 2.67s
228:	learn: 0.1467388	total: 27.9s	remaining: 2.55s
229:	learn: 0.1465107	total: 28s	remaining: 2.43s
230:	learn: 0.1462978	total: 28.1s	remaining: 2.31s
231:	learn: 0.1460668	total: 28.3s	remaining: 2.19s
232:	learn: 0.1458759	total: 28.4s	remaining: 2.07s
233:	learn: 0.1455472	total: 28.5s	remaining: 1.95s
234:	learn: 0.1453970	total: 28.6s	remaining: 1.82s
235:	learn: 0.1451956	total: 28.7s	remaining: 1.7s
236:	learn: 0.1449452	total: 28.8s	remaining: 1.58s
237:	learn: 0.1445898	total: 29s	remaining: 1.46s
238:	learn: 0.1444252	total: 29.1s	remaining: 1.34s
239:	learn: 0.1442131	total: 29.2s	remaining: 1.22s
240:	learn: 0.1439433	total: 29.3s	remaining: 1.09s
241:	learn: 0.1437048	total: 29.4s	remaining: 972ms
242:	learn: 0.1434581	total: 29.5s	remaining: 851ms
243:	learn: 0.1432144	total: 29.6s	remaining: 729ms
244:	learn: 0.1429997	total: 29.8s	remaining: 607ms
245:	learn: 0.1427855	total: 29.9s	remaining: 486ms
246:	learn: 0.1424638	total: 30s	remaining: 364ms
247:	learn: 0.1422027	total: 30.1s	remaining: 243ms
248:	learn: 0.1419462	total: 30.3s	remaining: 121ms
	TOL		

```
249:
        learn: 0.1417308
                                 total: 30.4s
                                                  remaining: Ous
      learning_rate=0.3, 12_leaf_reg=3, iterations=250, depth=7, ctr_bor
[CV]
der_count=10, border_count=50, score=0.8822917669453597, total= 37.3s
[CV] learning rate=0.3, 12 leaf reg=3, iterations=250, depth=7, ctr bord
er count=10, border count=50
        learn: 0.4794096
                                 total: 128ms
                                                  remaining: 31.9s
0:
1:
        learn: 0.3834972
                                 total: 270ms
                                                  remaining: 33.5s
2:
        learn: 0.3422483
                                 total: 400ms
                                                  remaining: 32.9s
3:
        learn: 0.3191194
                                 total: 501ms
                                                  remaining: 30.8s
4:
        learn: 0.3072729
                                 total: 638ms
                                                  remaining: 31.3s
5:
        learn: 0.2999344
                                 total: 749ms
                                                  remaining: 30.5s
6:
        learn: 0.2941426
                                 total: 861ms
                                                  remaining: 29.9s
7:
        learn: 0.2900887
                                 total: 971ms
                                                  remaining: 29.4s
8:
        learn: 0.2858076
                                 total: 1.08s
                                                  remaining: 28.9s
9:
        learn: 0.2823812
                                 total: 1.2s
                                                  remaining: 28.8s
10:
        learn: 0.2795167
                                 total: 1.31s
                                                  remaining: 28.5s
11:
        learn: 0.2762814
                                 total: 1.42s
                                                  remaining: 28.2s
                                 total: 1.54s
                                                  remaining: 28.1s
12:
        learn: 0.2733826
        learn: 0.2705370
13:
                                 total: 1.65s
                                                  remaining: 27.8s
14:
        learn: 0.2678720
                                 total: 1.77s
                                                  remaining: 27.8s
15:
        learn: 0.2654032
                                 total: 1.88s
                                                  remaining: 27.4s
16:
        learn: 0.2633989
                                 total: 1.99s
                                                  remaining: 27.3s
17:
        learn: 0.2613734
                                 total: 2.1s
                                                  remaining: 27.1s
18:
        learn: 0.2591501
                                 total: 2.23s
                                                  remaining: 27.1s
19:
        learn: 0.2570855
                                 total: 2.33s
                                                  remaining: 26.8s
                                 total: 2.45s
20:
        learn: 0.2550760
                                                  remaining: 26.7s
21:
        learn: 0.2533591
                                 total: 2.55s
                                                  remaining: 26.5s
22:
        learn: 0.2516990
                                 total: 2.66s
                                                  remaining: 26.3s
23:
        learn: 0.2502864
                                 total: 2.77s
                                                  remaining: 26.1s
24:
        learn: 0.2487807
                                 total: 2.88s
                                                  remaining: 25.9s
25:
        learn: 0.2472802
                                 total: 3.01s
                                                  remaining: 25.9s
26:
        learn: 0.2458672
                                 total: 3.14s
                                                  remaining: 25.9s
27:
        learn: 0.2442801
                                 total: 3.31s
                                                  remaining: 26.2s
28:
        learn: 0.2430852
                                 total: 3.44s
                                                  remaining: 26.2s
29:
        learn: 0.2416924
                                 total: 3.59s
                                                  remaining: 26.3s
30:
        learn: 0.2402258
                                 total: 3.75s
                                                  remaining: 26.5s
31:
        learn: 0.2389441
                                 total: 3.9s
                                                  remaining: 26.5s
32:
        learn: 0.2378335
                                 total: 4.04s
                                                  remaining: 26.6s
33:
        learn: 0.2367984
                                 total: 4.16s
                                                  remaining: 26.4s
34:
        learn: 0.2357326
                                 total: 4.28s
                                                  remaining: 26.3s
35:
        learn: 0.2345627
                                 total: 4.39s
                                                  remaining: 26.1s
36:
        learn: 0.2333840
                                 total: 4.49s
                                                  remaining: 25.9s
                                                  remaining: 25.8s
37:
        learn: 0.2321896
                                 total: 4.62s
                                 total: 4.74s
38:
        learn: 0.2311001
                                                  remaining: 25.6s
39:
        learn: 0.2301157
                                 total: 4.85s
                                                  remaining: 25.5s
40:
        learn: 0.2289621
                                 total: 4.97s
                                                  remaining: 25.4s
41:
        learn: 0.2280224
                                 total: 5.08s
                                                  remaining: 25.2s
42:
        learn: 0.2271150
                                 total: 5.2s
                                                  remaining: 25s
43:
        learn: 0.2260221
                                 total: 5.31s
                                                  remaining: 24.9s
44:
        learn: 0.2250600
                                 total: 5.43s
                                                  remaining: 24.8s
45:
                                                  remaining: 24.5s
        learn: 0.2241665
                                 total: 5.54s
        learn: 0.2233924
                                 total: 5.65s
46:
                                                  remaining: 24.4s
47:
        learn: 0.2222472
                                 total: 5.78s
                                                  remaining: 24.3s
48:
        learn: 0.2213777
                                 total: 5.9s
                                                  remaining: 24.2s
49:
        learn: 0.2204298
                                 total: 6.02s
                                                  remaining: 24.1s
50:
        learn: 0.2194416
                                 total: 6.17s
                                                  remaining: 24.1s
51:
        learn: 0.2187641
                                 total: 6.31s
                                                  remaining: 24s
52:
        learn: 0.2178700
                                 total: 6.44s
                                                  remaining: 24s
53:
        learn: 0.2170252
                                 total: 6.6s
                                                  remaining: 24s
```

54:	learn: 0.2162813	total: 6.73s	remaining:	23.9s
55:	learn: 0.2155588	total: 6.85s	remaining:	23.7s
56:	learn: 0.2148063	total: 6.96s	remaining:	23.6s
57:	learn: 0.2139950	total: 7.08s	remaining:	
58:	learn: 0.2131623	total: 7.19s	remaining:	
			•	
59:	learn: 0.2123317	total: 7.32s	remaining:	
60:	learn: 0.2116266	total: 7.46s	remaining:	
61:	learn: 0.2109480	total: 7.57s	remaining:	22.9s
62:	learn: 0.2102570	total: 7.68s	remaining:	22.8s
63:	learn: 0.2096558	total: 7.8s	remaining:	22.7s
64:	learn: 0.2090905	total: 7.93s	remaining:	
65:	learn: 0.2083725	total: 8.04s	remaining:	
			_	
66:	learn: 0.2077617	total: 8.16s	remaining:	
67:	learn: 0.2071626	total: 8.28s	remaining:	
68:	learn: 0.2065480	total: 8.42s	remaining:	22.1s
69:	learn: 0.2059047	total: 8.54s	remaining:	22s
70:	learn: 0.2052642	total: 8.67s	remaining:	21.9s
71:	learn: 0.2046398	total: 8.79s	remaining:	
72:	learn: 0.2040800	total: 8.91s	remaining:	
73:	learn: 0.2034599	total: 9.03s	remaining:	
73: 74:	learn: 0.2029342			
		total: 9.16s	remaining:	
75:	learn: 0.2023547	total: 9.27s	remaining:	
76:	learn: 0.2017645	total: 9.4s	remaining:	
77:	learn: 0.2011139	total: 9.52s	remaining:	
78:	learn: 0.2005424	total: 9.65s	remaining:	20.9s
79:	learn: 0.2000568	total: 9.76s	remaining:	20.7s
80:	learn: 0.1995149	total: 9.88s	remaining:	20.6s
81:	learn: 0.1989939	total: 10s	remaining:	
82:	learn: 0.1984601	total: 10.1s	remaining:	
83:	learn: 0.1979591	total: 10.2s	remaining:	
84:	learn: 0.1973820	total: 10.23	remaining:	
85:	learn: 0.1969057	total: 10.5s	remaining:	20s
86:	learn: 0.1964010	total: 10.6s	remaining:	
87:	learn: 0.1958965	total: 10.7s	remaining:	
88:	learn: 0.1952818	total: 10.9s	remaining:	19.6s
89:	learn: 0.1947734	total: 11s	remaining:	19.5s
90:	learn: 0.1942085	total: 11.1s	remaining:	19.4s
91:	learn: 0.1937514	total: 11.2s	remaining:	19.3s
92:	learn: 0.1932916	total: 11.3s	remaining:	
93:	learn: 0.1928673	total: 11.4s	remaining:	19s
94:	learn: 0.1924299	total: 11.43	remaining:	
			_	
95:	learn: 0.1920389	total: 11.7s	remaining:	
96:	learn: 0.1915492	total: 11.8s	remaining:	
97:	learn: 0.1910382	total: 11.9s	remaining:	
98:	learn: 0.1905418	total: 12s	remaining:	18.4s
99:	learn: 0.1900486	total: 12.2s	remaining:	18.3s
100:	learn: 0.1896161	total: 12.3s	remaining:	18.2s
101:	learn: 0.1891128	total: 12.4s	remaining:	18s
102:	learn: 0.1886222	total: 12.5s	remaining:	
103:	learn: 0.1883311	total: 12.6s	remaining:	
104:	learn: 0.1878209	total: 12.8s	remaining:	
			_	
105:	learn: 0.1873445	total: 12.9s	remaining:	
106:	learn: 0.1869320	total: 13s	remaining:	
107:	learn: 0.1863830	total: 13.1s	remaining:	
108:	learn: 0.1859597	total: 13.2s	remaining:	
109:	learn: 0.1855418	total: 13.4s	remaining:	17s
110:	learn: 0.1851446	total: 13.5s	remaining:	16.9s
111:	learn: 0.1847929	total: 13.6s	remaining:	16.7s
112:	learn: 0.1842910	total: 13.7s	remaining:	
•	- : - · - - -		6•	

113:	learn: 0.1838541	total: 13.8s	remaining:	16.5s
114:	learn: 0.1834872	total: 14s	remaining:	16.4s
115:	learn: 0.1830573	total: 14.1s	remaining:	16.3s
116:	learn: 0.1826762	total: 14.2s	remaining:	16.1s
117:	learn: 0.1822888	total: 14.3s	remaining:	
118:	learn: 0.1818699	total: 14.4s	remaining:	
119:	learn: 0.1814282	total: 14.6s	remaining:	
120:	learn: 0.1810572	total: 14.7s	remaining:	
121:	learn: 0.1807388	total: 14.8s	remaining:	
122:	learn: 0.1802768	total: 14.9s	remaining:	
123:	learn: 0.1798162	total: 15.1s	remaining:	15.3s
124:	learn: 0.1793637	total: 15.2s	remaining:	15.2s
125:	learn: 0.1789945	total: 15.3s	remaining:	15s
126:	learn: 0.1786740	total: 15.4s	remaining:	14.9s
127:	learn: 0.1783012	total: 15.5s	remaining:	
128:	learn: 0.1779321	total: 15.7s	remaining:	
129:	learn: 0.1775095	total: 15.8s	remaining:	
	learn: 0.1771491			
130:		total: 15.9s	remaining:	
131:	learn: 0.1767664	total: 16s	remaining:	
132:	learn: 0.1763903	total: 16.1s	remaining:	
133:	learn: 0.1760125	total: 16.3s	remaining:	14.1s
134:	learn: 0.1756370	total: 16.4s	remaining:	14s
135:	learn: 0.1752898	total: 16.5s	remaining:	13.8s
136:	learn: 0.1749515	total: 16.6s	remaining:	13.7s
137:	learn: 0.1745831	total: 16.7s	remaining:	
138:	learn: 0.1742498	total: 16.9s	remaining:	
139:	learn: 0.1738848	total: 17s	remaining:	
139. 140:			•	
	learn: 0.1734281	total: 17.1s	remaining:	
141:	learn: 0.1730783	total: 17.3s	remaining:	
142:	learn: 0.1726589	total: 17.4s	remaining:	
143:	learn: 0.1722500	total: 17.5s	remaining:	12.9s
144:	learn: 0.1719029	total: 17.6s	remaining:	12.8s
145:	learn: 0.1715780	total: 17.7s	remaining:	12.6s
146:	learn: 0.1711451	total: 17.9s	remaining:	12.5s
147:	learn: 0.1708515	total: 18s	remaining:	12.4s
148:	learn: 0.1705898	total: 18.1s	remaining:	
149:	learn: 0.1702871	total: 18.2s	remaining:	
150:	learn: 0.1702071	total: 18.4s	remaining:	
150. 151:	learn: 0.1695360		_	
		total: 18.5s	remaining:	
152:	learn: 0.1690633	total: 18.6s	remaining:	
153:	learn: 0.1686910	total: 18.8s	remaining:	
154:	learn: 0.1683196	total: 18.9s	remaining:	
155:	learn: 0.1680346	total: 19s	remaining:	11.5s
156:	learn: 0.1677277	total: 19.2s	remaining:	11.3s
157:	learn: 0.1673951	total: 19.3s	remaining:	11.2s
158:	learn: 0.1670827	total: 19.5s	remaining:	11.1s
159:	learn: 0.1667828	total: 19.6s	remaining:	
160:	learn: 0.1664655	total: 19.7s	remaining:	
161:	learn: 0.1660708	total: 19.9s	remaining:	
			_	
162:	learn: 0.1657858	total: 20s	remaining:	
163:	learn: 0.1655244	total: 20.2s	remaining:	
164:	learn: 0.1652462	total: 20.3s	remaining:	
165:	learn: 0.1648744	total: 20.4s	remaining:	10.3s
166:	learn: 0.1645816	total: 20.5s	remaining:	
167:	learn: 0.1642503	total: 20.6s	remaining:	10.1s
168:	learn: 0.1638873	total: 20.8s	remaining:	9.96s
169:	learn: 0.1635484	total: 20.9s	remaining:	
170:	learn: 0.1631805	total: 21s	remaining:	
171:	learn: 0.1629200	total: 21.1s	remaining:	
-/	1041 H. 0.1027200	21.13		

172.	loann: 0 1625607	+0+21. 21 20	nomaining: 0 46c
172:	learn: 0.1625697	total: 21.3s	remaining: 9.46s
173:	learn: 0.1622802	total: 21.4s	remaining: 9.34s
174:	learn: 0.1619781	total: 21.5s	remaining: 9.21s
175:	learn: 0.1617126	total: 21.6s	remaining: 9.09s
176:	learn: 0.1615134	total: 21.7s	remaining: 8.96s
177:	learn: 0.1611489	total: 21.9s	remaining: 8.84s
178:	learn: 0.1608533	total: 22s	remaining: 8.72s
179:	learn: 0.1605339	total: 22.1s	remaining: 8.6s
180:	learn: 0.1602945	total: 22.2s	remaining: 8.47s
181:	learn: 0.1600009	total: 22.3s	remaining: 8.35s
182:	learn: 0.1597061	total: 22.5s	remaining: 8.23s
183:	learn: 0.1594141	total: 22.6s	remaining: 8.1s
184:	learn: 0.1590945	total: 22.7s	remaining: 7.98s
185:	learn: 0.1587837	total: 22.8s	remaining: 7.85s
186:	learn: 0.1584784	total: 23s	remaining: 7.73s
187:	learn: 0.1581526	total: 23.1s	remaining: 7.61s
188:	learn: 0.1578823	total: 23.2s	remaining: 7.49s
189:	learn: 0.1576040	total: 23.3s	remaining: 7.37s
190:	learn: 0.1572944	total: 23.4s	remaining: 7.24s
191:	learn: 0.1570230	total: 23.6s	remaining: 7.12s
192:	learn: 0.1567524	total: 23.7s	remaining: 6.99s
193:	learn: 0.1565510	total: 23.8s	remaining: 6.86s
194:	learn: 0.1563065	total: 23.9s	remaining: 6.74s
195:	learn: 0.1560284	total: 24s	remaining: 6.61s
195. 196:			_
	learn: 0.1557251	total: 24.1s	remaining: 6.49s
197:	learn: 0.1554399	total: 24.2s	remaining: 6.36s
198:	learn: 0.1552048	total: 24.3s	remaining: 6.24s
199:	learn: 0.1549867	total: 24.5s	remaining: 6.11s
200:	learn: 0.1547876	total: 24.6s	remaining: 5.99s
201:	learn: 0.1544875	total: 24.7s	remaining: 5.87s
202:	learn: 0.1542424	total: 24.8s	remaining: 5.75s
203:	learn: 0.1539589	total: 24.9s	remaining: 5.62s
204:	learn: 0.1537255	total: 25.1s	remaining: 5.5s
205:	learn: 0.1534549	total: 25.2s	remaining: 5.37s
206:	learn: 0.1531389	total: 25.3s	remaining: 5.25s
207:	learn: 0.1528889	total: 25.4s	remaining: 5.13s
208:	learn: 0.1526222	total: 25.5s	remaining: 5.01s
209:	learn: 0.1523866	total: 25.7s	remaining: 4.89s
210:	learn: 0.1521408	total: 25.8s	remaining: 4.76s
211:	learn: 0.1518157	total: 25.9s	remaining: 4.64s
212:	learn: 0.1516067	total: 26s	remaining: 4.52s
213:	learn: 0.1513626	total: 26.1s	remaining: 4.39s
214:	learn: 0.1510955	total: 26.2s	remaining: 4.27s
215:	learn: 0.1508432	total: 26.3s	remaining: 4.15s
216:	learn: 0.1506026	total: 26.5s	remaining: 4.03s
217:	learn: 0.1502988	total: 26.6s	remaining: 3.9s
218:	learn: 0.1500377	total: 26.7s	remaining: 3.78s
219:	learn: 0.1497799	total: 26.8s	remaining: 3.66s
220:	learn: 0.1494339	total: 26.9s	remaining: 3.54s
221:	learn: 0.1491282	total: 27.1s	remaining: 3.41s
221:	learn: 0.1488841	total: 27.1s	remaining: 3.413
222:	learn: 0.1486359	total: 27.3s	remaining: 3.295
223:	learn: 0.1483871	total: 27.3s	_
			remaining: 3.05s
225:	learn: 0.1480897	total: 27.6s	remaining: 2.93s
226:	learn: 0.1479108	total: 27.7s	remaining: 2.8s
227:	learn: 0.1475930	total: 27.8s	remaining: 2.68s
228:	learn: 0.1472818	total: 27.9s	remaining: 2.56s
229:	learn: 0.1470690	total: 28s	remaining: 2.44s
230:	learn: 0.1467906	total: 28.2s	remaining: 2.32s

```
231:
                                 total: 28.3s
                                                  remaining: 2.19s
        learn: 0.1465707
232:
        learn: 0.1462737
                                 total: 28.4s
                                                  remaining: 2.07s
                                                  remaining: 1.95s
233:
        learn: 0.1459690
                                 total: 28.5s
                                 total: 28.6s
234:
        learn: 0.1456747
                                                  remaining: 1.83s
235:
        learn: 0.1454023
                                 total: 28.8s
                                                  remaining: 1.71s
236:
        learn: 0.1451303
                                 total: 28.9s
                                                  remaining: 1.58s
237:
        learn: 0.1448006
                                 total: 29s
                                                  remaining: 1.46s
                                 total: 29.1s
238:
        learn: 0.1445253
                                                  remaining: 1.34s
239:
        learn: 0.1442856
                                 total: 29.3s
                                                  remaining: 1.22s
240:
        learn: 0.1439882
                                 total: 29.4s
                                                  remaining: 1.1s
241:
        learn: 0.1436817
                                 total: 29.5s
                                                  remaining: 975ms
242:
        learn: 0.1434024
                                 total: 29.6s
                                                  remaining: 854ms
243:
        learn: 0.1431010
                                 total: 29.8s
                                                  remaining: 732ms
244:
        learn: 0.1428670
                                 total: 29.9s
                                                  remaining: 610ms
                                 total: 30s
245:
        learn: 0.1426122
                                                  remaining: 488ms
246:
        learn: 0.1424344
                                 total: 30.1s
                                                  remaining: 366ms
247:
        learn: 0.1421981
                                 total: 30.2s
                                                  remaining: 244ms
                                 total: 30.3s
                                                  remaining: 122ms
248:
        learn: 0.1420128
249:
                                 total: 30.5s
        learn: 0.1417878
                                                  remaining: Ous
[CV]
      learning_rate=0.3, 12_leaf_reg=3, iterations=250, depth=7, ctr_bor
der_count=10, border_count=50, score=0.8806119287260449, total=
                                                                    37.2s
[CV] learning_rate=0.3, 12_leaf_reg=3, iterations=250, depth=7, ctr_bord
er count=10, border count=50
        learn: 0.4818642
                                 total: 139ms
                                                  remaining: 34.5s
0:
1:
        learn: 0.3857383
                                 total: 283ms
                                                  remaining: 35.1s
2:
                                 total: 425ms
                                                  remaining: 35s
        learn: 0.3439459
3:
        learn: 0.3223187
                                 total: 548ms
                                                  remaining: 33.7s
4:
        learn: 0.3094659
                                 total: 676ms
                                                  remaining: 33.1s
5:
        learn: 0.3012723
                                 total: 789ms
                                                  remaining: 32.1s
6:
        learn: 0.2954380
                                 total: 907ms
                                                  remaining: 31.5s
7:
        learn: 0.2908129
                                                  remaining: 30.7s
                                 total: 1.01s
8:
        learn: 0.2872003
                                 total: 1.14s
                                                  remaining: 30.4s
9:
        learn: 0.2834948
                                 total: 1.25s
                                                  remaining: 29.9s
10:
        learn: 0.2804040
                                 total: 1.36s
                                                  remaining: 29.7s
11:
        learn: 0.2772059
                                 total: 1.48s
                                                  remaining: 29.4s
12:
        learn: 0.2744498
                                 total: 1.6s
                                                  remaining: 29.1s
13:
        learn: 0.2721365
                                 total: 1.71s
                                                  remaining: 28.8s
14:
        learn: 0.2692985
                                 total: 1.83s
                                                  remaining: 28.7s
15:
        learn: 0.2673438
                                 total: 1.94s
                                                  remaining: 28.4s
16:
        learn: 0.2650347
                                 total: 2.06s
                                                  remaining: 28.3s
17:
        learn: 0.2626386
                                 total: 2.18s
                                                  remaining: 28.2s
18:
        learn: 0.2605308
                                 total: 2.31s
                                                  remaining: 28.1s
                                                  remaining: 27.9s
19:
        learn: 0.2587354
                                 total: 2.43s
                                                  remaining: 27.7s
20:
        learn: 0.2568974
                                 total: 2.54s
21:
        learn: 0.2551640
                                 total: 2.64s
                                                  remaining: 27.4s
22:
        learn: 0.2534418
                                 total: 2.77s
                                                  remaining: 27.3s
23:
        learn: 0.2517593
                                 total: 2.88s
                                                  remaining: 27.1s
24:
        learn: 0.2501532
                                 total: 3.01s
                                                  remaining: 27.1s
25:
                                                  remaining: 27s
        learn: 0.2485730
                                 total: 3.13s
26:
        learn: 0.2469476
                                 total: 3.25s
                                                  remaining: 26.8s
                                                  remaining: 26.6s
27:
        learn: 0.2455186
                                 total: 3.36s
28:
        learn: 0.2440404
                                 total: 3.49s
                                                  remaining: 26.6s
29:
        learn: 0.2428187
                                 total: 3.6s
                                                  remaining: 26.4s
30:
        learn: 0.2416032
                                 total: 3.72s
                                                  remaining: 26.3s
31:
        learn: 0.2404274
                                 total: 3.83s
                                                  remaining: 26.1s
32:
        learn: 0.2394282
                                 total: 3.95s
                                                  remaining: 26s
33:
        learn: 0.2384059
                                 total: 4.07s
                                                  remaining: 25.9s
34:
        learn: 0.2372198
                                 total: 4.2s
                                                  remaining: 25.8s
                                                  remaining: 25.8s
35:
        learn: 0.2360169
                                 total: 4.33s
```

36:	learn: 0.2349772	total: 4.46s	remaining:	25.7s
37:	learn: 0.2336258	total: 4.58s	remaining:	25.6s
38:	learn: 0.2324447	total: 4.7s	remaining:	
39:	learn: 0.2312768	total: 4.82s	remaining:	
40:	learn: 0.2302140	total: 4.94s	remaining:	
			_	
41:	learn: 0.2290410	total: 5.13s	remaining:	
42:	learn: 0.2278703	total: 5.32s	remaining:	25.6s
43:	learn: 0.2268779	total: 5.52s	remaining:	25.8s
44:	learn: 0.2259098	total: 5.78s	remaining:	26.3s
45:	learn: 0.2249703	total: 6.01s	remaining:	
46:	learn: 0.2240354	total: 6.23s	remaining:	
47:	learn: 0.2231414	total: 6.42s	remaining:	27s
48:	learn: 0.2220808	total: 6.66s	remaining:	
49:	learn: 0.2211588	total: 6.85s	remaining:	27.4s
50:	learn: 0.2203810	total: 7.02s	remaining:	27.4s
51:	learn: 0.2195007	total: 7.19s	remaining:	27.4s
52:	learn: 0.2185680	total: 7.35s	remaining:	
53:	learn: 0.2178689	total: 7.49s	remaining:	
			•	
54:	learn: 0.2169853	total: 7.64s	remaining:	
55:	learn: 0.2162949	total: 7.82s	remaining:	
56:	learn: 0.2153838	total: 8.03s	remaining:	27.2s
57:	learn: 0.2145818	total: 8.2s	remaining:	27.1s
58:	learn: 0.2139118	total: 8.37s	remaining:	
59:	learn: 0.2132131	total: 8.53s	remaining:	27s
60:	learn: 0.2124710	total: 8.67s	_	
			remaining:	
61:	learn: 0.2118356	total: 8.84s	remaining:	
62:	learn: 0.2111670	total: 8.99s	remaining:	
63:	learn: 0.2105227	total: 9.11s	remaining:	
64:	learn: 0.2099035	total: 9.24s	remaining:	26.3s
65:	learn: 0.2093054	total: 9.38s	remaining:	26.2s
66:	learn: 0.2085588	total: 9.6s	remaining:	26.2s
67:	learn: 0.2079289	total: 9.81s	0	26.3s
68:	learn: 0.2072587	total: 10s	remaining:	
69:	learn: 0.2068183	total: 10.3s	remaining:	
70:	learn: 0.2063148	total: 10.5s		
			remaining:	
71:	learn: 0.2056758	total: 10.7s	remaining:	
72:	learn: 0.2050433	total: 10.9s	remaining:	
73:	learn: 0.2044118	total: 11.1s	remaining:	26.4s
74:	learn: 0.2037818	total: 11.3s	remaining:	26.3s
75:	learn: 0.2031559	total: 11.4s	remaining:	26.2s
76:	learn: 0.2025160	total: 11.6s	remaining:	
77:	learn: 0.2019648	total: 11.8s	remaining:	
77: 78:	learn: 0.2012953	total: 12s	•	
			remaining:	
79:	learn: 0.2008306	total: 12.2s	remaining:	
80:	learn: 0.2002807	total: 12.5s	remaining:	26s
81:	learn: 0.1997521	total: 12.6s	remaining:	25.9s
82:	learn: 0.1992277	total: 12.8s	remaining:	25.9s
83:	learn: 0.1986028	total: 13.1s	remaining:	25.9s
84:	learn: 0.1980767	total: 13.3s	remaining:	
85:	learn: 0.1976001	total: 13.5s	remaining:	
86:	learn: 0.1970025	total: 13.7s	•	
			remaining:	
87:	learn: 0.1965690	total: 13.9s	remaining:	
88:	learn: 0.1960987	total: 14.1s	remaining:	
89:	learn: 0.1955826	total: 14.3s	remaining:	
90:	learn: 0.1950338	total: 14.5s	remaining:	25.3s
91:	learn: 0.1945702	total: 14.7s	remaining:	25.2s
92:	learn: 0.1939642	total: 14.9s	remaining:	
93:	learn: 0.1934091	total: 15.1s	remaining:	
94:	learn: 0.1927690	total: 15.13	remaining:	
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95:	learn: 0.1922314	total: 15.4s	remaining:	24.7s
96:	learn: 0.1916706	total: 15.6s	remaining:	24.6s
97:	learn: 0.1911485	total: 15.7s	remaining:	24.3s
98:	learn: 0.1905923	total: 15.8s	remaining:	24.1s
99:	learn: 0.1902002	total: 15.9s	remaining:	23.9s
100:	learn: 0.1896714	total: 16.1s	remaining:	23.7s
101:	learn: 0.1893062	total: 16.2s	remaining:	
102:	learn: 0.1887953	total: 16.3s	remaining:	
103:	learn: 0.1882709	total: 16.4s	remaining:	
104:	learn: 0.1877344	total: 16.6s	remaining:	
105:	learn: 0.1873458	total: 16.7s	remaining:	
106:	learn: 0.1869075	total: 16.8s	remaining:	
107:	learn: 0.1864685	total: 16.9s	remaining:	
108:	learn: 0.1859767	total: 17.1s	remaining:	
100:	learn: 0.1855766	total: 17.13	remaining:	
109. 110:	learn: 0.1852883	total: 17.2s	remaining:	
111:	learn: 0.1848041	total: 17.4s	remaining:	
			•	
112:	learn: 0.1844121	total: 17.6s	remaining:	
113:	learn: 0.1840464	total: 17.7s	remaining:	
114:	learn: 0.1836127	total: 17.9s	remaining:	
115:	learn: 0.1831258	total: 18s	remaining:	
116:	learn: 0.1827306	total: 18.1s	remaining:	20.6s
117:	learn: 0.1823603	total: 18.2s	remaining:	
118:	learn: 0.1820635	total: 18.3s	remaining:	20.2s
119:	learn: 0.1815529	total: 18.5s	remaining:	20s
120:	learn: 0.1811035	total: 18.6s	remaining:	
121:	learn: 0.1807490	total: 18.7s	remaining:	19.6s
122:	learn: 0.1803946	total: 18.8s	remaining:	
123:	learn: 0.1799739	total: 19s	remaining:	19.3s
124:	learn: 0.1795335	total: 19.1s	remaining:	
125:	learn: 0.1791358	total: 19.2s	remaining:	18.9s
126:	learn: 0.1787191	total: 19.4s	remaining:	18.7s
127:	learn: 0.1784466	total: 19.5s	remaining:	
128:	learn: 0.1780772	total: 19.6s	remaining:	
129:	learn: 0.1777234	total: 19.7s	remaining:	18.2s
130:	learn: 0.1773789	total: 19.8s	remaining:	18s
131:	learn: 0.1770324	total: 20s	remaining:	17.8s
132:	learn: 0.1766235	total: 20.1s	remaining:	17.7s
133:	learn: 0.1763045	total: 20.2s	remaining:	17.5s
134:	learn: 0.1759187	total: 20.4s	remaining:	17.4s
135:	learn: 0.1755834	total: 20.5s	remaining:	17.2s
136:	learn: 0.1751806	total: 20.6s	remaining:	17s
137:	learn: 0.1748826	total: 20.8s	remaining:	16.8s
138:	learn: 0.1744961	total: 20.9s	remaining:	16.7s
139:	learn: 0.1741987	total: 21.1s	remaining:	16.6s
140:	learn: 0.1738338	total: 21.2s	remaining:	16.4s
141:	learn: 0.1734568	total: 21.4s	remaining:	16.2s
142:	learn: 0.1730956	total: 21.5s	remaining:	
143:	learn: 0.1727153	total: 21.6s	remaining:	
144:	learn: 0.1723633	total: 21.7s	remaining:	
145:	learn: 0.1720346	total: 21.8s	remaining:	15.5s
146:	learn: 0.1716707	total: 21.9s	remaining:	15.4s
147:	learn: 0.1713986	total: 22s	remaining:	15.2s
148:	learn: 0.1713300	total: 22.2s	remaining:	15.23 15s
149:	learn: 0.1711321	total: 22.2s	remaining:	
150:	learn: 0.1707071	total: 22.4s	remaining:	14.7s
150. 151:	learn: 0.1700532	total: 22.4s	remaining:	14.75 14.5s
151. 152:	learn: 0.1695949	total: 22.3s	remaining.	
152: 153:	learn: 0.1693949	total: 22.7s	remaining:	
100.	בכמווו. מידמבים	ιυια Ι. 22. δ5	i ematiitiik:	14.2s

154:	learn: 0.1689538	total: 22.9s	remaining:	14.1s
155:	learn: 0.1685833	total: 23.1s	remaining:	13.9s
156:	learn: 0.1682683	total: 23.2s	remaining:	13.75
157:	learn: 0.1679657	total: 23.3s	remaining:	
158:	learn: 0.1675940	total: 23.4s	remaining:	
			•	
159:	learn: 0.1673413	total: 23.6s	remaining:	
160:	learn: 0.1670575	total: 23.7s	remaining:	13.1s
161:	learn: 0.1668038	total: 23.8s	remaining:	12.9s
162:	learn: 0.1664643	total: 23.9s	remaining:	12.8s
163:	learn: 0.1660829	total: 24s	remaining:	
164:	learn: 0.1657423	total: 24.2s	remaining:	
			_	
165:	learn: 0.1653827	total: 24.3s	remaining:	
166:	learn: 0.1651107	total: 24.4s	remaining:	
167:	learn: 0.1648030	total: 24.5s	remaining:	12s
168:	learn: 0.1645217	total: 24.7s	remaining:	11.8s
169:	learn: 0.1641505	total: 24.8s	remaining:	11.7s
170:	learn: 0.1638729	total: 25s	remaining:	
170: 171:	learn: 0.1635727	total: 25.2s	remaining:	
			•	
172:	learn: 0.1633530	total: 25.4s	remaining:	
173:	learn: 0.1631292	total: 25.7s	remaining:	
174:	learn: 0.1628667	total: 25.9s	remaining:	11.1s
175:	learn: 0.1624651	total: 26.1s	remaining:	11s
176:	learn: 0.1621288	total: 26.2s	remaining:	10.85
177:	learn: 0.1618097	total: 26.4s	remaining:	10.7s
178:	learn: 0.1615287	total: 26.5s	remaining:	
			•	
179:	learn: 0.1612804	total: 26.7s	remaining:	
180:	learn: 0.1609949	total: 26.9s	remaining:	
181:	learn: 0.1607295	total: 27.1s	remaining:	
182:	learn: 0.1604186	total: 27.2s	remaining:	9.98s
183:	learn: 0.1601216	total: 27.4s	remaining:	9.82s
184:	learn: 0.1598329	total: 27.5s	remaining:	9.68s
185:	learn: 0.1596100	total: 27.7s	remaining:	9.525
186:	learn: 0.1593396	total: 27.9s	remaining:	
187:	learn: 0.1590233	total: 28.2s	remaining:	
188:	learn: 0.1586929	total: 28.4s	_	
			remaining:	
189:	learn: 0.1583442	total: 28.6s	remaining:	
190:	learn: 0.1580411	total: 28.8s	remaining:	
191:	learn: 0.1577813	total: 29.1s	remaining:	8.78s
192:	learn: 0.1575318	total: 29.2s	remaining:	8.63s
193:	learn: 0.1571852	total: 29.4s	remaining:	8.49s
194:	learn: 0.1569395	total: 29.6s	remaining:	
195:	learn: 0.1566391	total: 29.8s	remaining:	
196:	learn: 0.1562831	total: 30s	remaining:	
			_	
197:	learn: 0.1559908	total: 30.2s	remaining:	
198:	learn: 0.1557700	total: 30.4s	remaining:	
199:	learn: 0.1555088	total: 30.5s	remaining:	7.63s
200:	learn: 0.1552811	total: 30.7s	remaining:	7.48s
201:	learn: 0.1550314	total: 30.9s	remaining:	7.33s
202:	learn: 0.1548002	total: 31.1s	remaining:	
203:	learn: 0.1545602	total: 31.2s	_	7.04s
204:	learn: 0.1542724	total: 31.4s	remaining:	
			_	
205:	learn: 0.1539975	total: 31.5s	remaining:	
206:	learn: 0.1536984	total: 31.7s	remaining:	
207:	learn: 0.1534415	total: 31.9s	remaining:	
208:	learn: 0.1532622	total: 32s	remaining:	
209:	learn: 0.1530001	total: 32.2s	remaining:	6.13s
210:	learn: 0.1527430	total: 32.3s	remaining:	
211:	learn: 0.1524629	total: 32.5s	remaining:	
212:	learn: 0.1522087	total: 32.7s	remaining:	
•				2.000

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213:
        learn: 0.1519532
                                 total: 32.8s
                                                  remaining: 5.52s
214:
        learn: 0.1516779
                                 total: 32.9s
                                                  remaining: 5.36s
215:
                                                  remaining: 5.21s
        learn: 0.1513834
                                 total: 33.1s
216:
        learn: 0.1511443
                                 total: 33.2s
                                                  remaining: 5.05s
217:
        learn: 0.1508502
                                 total: 33.3s
                                                  remaining: 4.89s
218:
        learn: 0.1506272
                                 total: 33.5s
                                                  remaining: 4.74s
219:
                                 total: 33.7s
        learn: 0.1503258
                                                  remaining: 4.59s
                                 total: 33.9s
220:
        learn: 0.1500185
                                                  remaining: 4.45s
221:
        learn: 0.1497201
                                 total: 34s
                                                  remaining: 4.29s
222:
        learn: 0.1494641
                                 total: 34.2s
                                                  remaining: 4.13s
223:
        learn: 0.1491491
                                 total: 34.3s
                                                  remaining: 3.98s
224:
        learn: 0.1488517
                                 total: 34.5s
                                                  remaining: 3.83s
225:
        learn: 0.1486611
                                 total: 34.6s
                                                  remaining: 3.68s
226:
        learn: 0.1484380
                                 total: 34.8s
                                                  remaining: 3.52s
                                 total: 35s
227:
        learn: 0.1481781
                                                  remaining: 3.38s
228:
        learn: 0.1479599
                                 total: 35.2s
                                                  remaining: 3.22s
229:
        learn: 0.1476913
                                 total: 35.3s
                                                  remaining: 3.07s
                                 total: 35.5s
                                                  remaining: 2.92s
230:
        learn: 0.1474298
231:
                                 total: 35.7s
        learn: 0.1471402
                                                  remaining: 2.77s
232:
        learn: 0.1469052
                                 total: 35.8s
                                                  remaining: 2.61s
233:
        learn: 0.1466726
                                 total: 36s
                                                  remaining: 2.46s
                                                  remaining: 2.31s
234:
        learn: 0.1463978
                                 total: 36.2s
235:
        learn: 0.1460845
                                 total: 36.4s
                                                  remaining: 2.16s
236:
        learn: 0.1457843
                                 total: 36.5s
                                                  remaining: 2s
237:
        learn: 0.1454830
                                 total: 36.6s
                                                  remaining: 1.85s
                                 total: 36.7s
238:
        learn: 0.1451780
                                                  remaining: 1.69s
239:
        learn: 0.1449288
                                 total: 36.9s
                                                  remaining: 1.54s
240:
        learn: 0.1446272
                                 total: 37s
                                                  remaining: 1.38s
241:
        learn: 0.1443470
                                 total: 37.1s
                                                  remaining: 1.23s
242:
        learn: 0.1441337
                                 total: 37.2s
                                                  remaining: 1.07s
243:
        learn: 0.1438779
                                 total: 37.3s
                                                  remaining: 918ms
244:
        learn: 0.1436193
                                 total: 37.4s
                                                  remaining: 764ms
245:
        learn: 0.1434433
                                 total: 37.6s
                                                  remaining: 611ms
246:
        learn: 0.1431680
                                 total: 37.7s
                                                  remaining: 458ms
247:
        learn: 0.1428731
                                 total: 37.9s
                                                  remaining: 306ms
248:
        learn: 0.1426389
                                 total: 38s
                                                  remaining: 153ms
249:
        learn: 0.1423758
                                 total: 38.2s
                                                  remaining: Ous
      learning_rate=0.3, 12_leaf_reg=3, iterations=250, depth=7, ctr_bor
der_count=10, border_count=50, score=0.8846086510127892, total= 45.2s
[CV] learning_rate=0.03, l2_leaf_reg=3, iterations=1000, depth=8, ctr_bo
rder count=200, border count=50
0:
        learn: 0.6667306
                                 total: 156ms
                                                  remaining: 2m 36s
1:
        learn: 0.6424199
                                 total: 300ms
                                                  remaining: 2m 29s
2:
        learn: 0.6193769
                                 total: 465ms
                                                  remaining: 2m 34s
                                                  remaining: 2m 36s
3:
        learn: 0.5980522
                                 total: 628ms
                                 total: 788ms
4:
        learn: 0.5785240
                                                  remaining: 2m 36s
5:
        learn: 0.5603077
                                 total: 931ms
                                                  remaining: 2m 34s
6:
        learn: 0.5430144
                                 total: 1.09s
                                                  remaining: 2m 34s
7:
        learn: 0.5269018
                                 total: 1.23s
                                                  remaining: 2m 32s
8:
                                                  remaining: 2m 32s
        learn: 0.5121235
                                 total: 1.38s
9:
                                 total: 1.55s
                                                  remaining: 2m 33s
        learn: 0.4986159
                                 total: 1.72s
                                                  remaining: 2m 34s
10:
        learn: 0.4855092
11:
        learn: 0.4734809
                                 total: 1.87s
                                                  remaining: 2m 34s
12:
        learn: 0.4626444
                                 total: 2.04s
                                                  remaining: 2m 34s
13:
        learn: 0.4523451
                                 total: 2.2s
                                                  remaining: 2m 35s
14:
        learn: 0.4427165
                                 total: 2.38s
                                                  remaining: 2m 36s
15:
        learn: 0.4332276
                                 total: 2.61s
                                                  remaining: 2m 40s
16:
        learn: 0.4246228
                                 total: 2.78s
                                                  remaining: 2m 40s
17:
        learn: 0.4169690
                                 total: 2.96s
                                                  remaining: 2m 41s
```

18: learn: 0.4095039 total: 3.14s remaining: 2m 42s 20: learn: 0.3959352 total: 3.3s remaining: 2m 48s 21: learn: 0.3899208 total: 3.43s remaining: 2m 48s 22: learn: 0.3842590 total: 3.87s remaining: 2m 48s 23: learn: 0.3789763 total: 3.87s remaining: 2m 48s 23: learn: 0.3789763 total: 4.09s remaining: 2m 46s 25: learn: 0.36085122 total: 4.48s remaining: 2m 47s 26: learn: 0.36695122 total: 4.48s remaining: 2m 47s 26: learn: 0.3667508 total: 4.89s remaining: 2m 47s 27: learn: 0.3667508 total: 4.89s remaining: 2m 47s 28: learn: 0.3599877 total: 5.07s remaining: 2m 59s 28: learn: 0.3599897 total: 5.48s remaining: 2m 59s 30: learn: 0.3497934 total: 5.48s remaining: 2m 59s 30: learn: 0.3497934 total: 5.48s remaining: 2m 59s 31: learn: 0.34940467 total: 5.83s remaining: 2m 59s 33: learn: 0.3349855 total: 6.17s remaining: 2m 59s 34: learn: 0.3349855 total: 6.17s remaining: 2m 59s 36: learn: 0.3349855 total: 6.57s remaining: 2m 49s 37: learn: 0.3349855 total: 6.57s remaining: 2m 49s 38: learn: 0.3325201 total: 6.65s remaining: 2m 49s 38: learn: 0.3349855 total: 6.57s remaining: 2m 49s 39: learn: 0.3349856 total: 6.57s remaining: 2m 49s 40: learn: 0.3244448 total: 6.57s remaining: 2m 49s 40: learn: 0.324448 total: 6.72s remaining: 2m 49s 41: learn: 0.3246608 total: 6.72s remaining: 2m 44s 41: learn: 0.3246468 total: 7.13s remaining: 2m 44s 44: learn: 0.3246468 total: 7.75s remaining: 2m 43s 44: learn: 0.3178644 total: 7.75s remaining: 2m 43s 44: learn: 0.3186924 total: 7.75s remaining: 2m 35s 46: learn: 0.3186924 total: 7.75s remaining: 2m 35s 46: learn: 0.3186924 total: 7.75s remaining: 2m 35s 47: learn: 0.3186924 total: 7.75s remaining: 2m 35s 48: learn: 0.3195760 total: 7.82s remaining: 2m 35s 56: learn: 0.3056613 total: 8.49s remaining: 2m 35s 56: learn: 0.3056641 total: 9.49s remaining: 2m 35s 56: learn: 0.3077006 total: 8.49s remaining: 2m 35s 56: learn: 0.3096641 total: 9.49s remaining: 2m 35s 56: learn: 0.3096641 total: 9.49s remaining: 2m 35s 56: learn: 0.2998427 total: 9.45s remaining: 2m 29s 66: learn: 0.2996	10.	loann: 0 400E030	+0+2]. 2 146	nomaining	2m 12c
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31: learn: 0.3464817 total: 5.65s remaining: 2m 50s	29:	learn: 0.3532148	total: 5.26s	remaining:	2m 50s
32: learn: 0.3494248 total: 5.83s remaining: 2m 50s	30:	learn: 0.3497934	total: 5.48s	remaining:	2m 51s
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77:	learn: 0.2880924	total: 12.2s	nomaining: 2m 23c
77. 78:	learn: 0.2875865	total: 12.2s	remaining: 2m 23s remaining: 2m 23s
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81:	learn: 0.2860599	total: 12.7s	remaining: 2m 22s
82:	learn: 0.2855908	total: 12.9s	remaining: 2m 22s
83:	learn: 0.2851207	total: 13s	remaining: 2m 21s
84:	learn: 0.2846608	total: 13.1s	remaining: 2m 21s
85:	learn: 0.2842438	total: 13.3s	remaining: 2m 21s
86:	learn: 0.2837834	total: 13.4s	remaining: 2m 20s
87:	learn: 0.2833316	total: 13.5s	remaining: 2m 20s
88:	learn: 0.2829018	total: 13.7s	remaining: 2m 19s
89:	learn: 0.2824837	total: 13.8s	remaining: 2m 19s
90:	learn: 0.2820868	total: 13.9s	remaining: 2m 19s
91:	learn: 0.2816718	total: 14.1s	remaining: 2m 18s
92:	learn: 0.2812803	total: 14.2s	remaining: 2m 18s
93:	learn: 0.2808694	total: 14.3s	remaining: 2m 18s
94:	learn: 0.2804673	total: 14.5s	remaining: 2m 17s
95:	learn: 0.2800979	total: 14.6s	remaining: 2m 17s
96:	learn: 0.2797035	total: 14.7s	remaining: 2m 17s
97:	learn: 0.2792953	total: 14.9s	remaining: 2m 16s
98:	learn: 0.2789085	total: 15s	remaining: 2m 16s
99:	learn: 0.2785169	total: 15.1s	remaining: 2m 16s
100:	learn: 0.2781103	total: 15.3s	remaining: 2m 15s
101:	learn: 0.2777337	total: 15.4s	remaining: 2m 15s
102:	learn: 0.2773606	total: 15.5s	remaining: 2m 15s
103:	learn: 0.2770155	total: 15.7s	remaining: 2m 15s
104:	learn: 0.2766817	total: 15.8s	remaining: 2m 14s
105:	learn: 0.2763125	total: 15.03	remaining: 2m 14s
106:	learn: 0.2759745	total: 15.33	remaining: 2m 14s
107:	learn: 0.2756076	total: 16.13	remaining: 2m 13s
107:	learn: 0.2752525	total: 16.2s	remaining: 2m 13s
100:	learn: 0.2749325	total: 16.5s	remaining: 2m 13s
	learn: 0.2746022	total: 16.6s	•
110:			J
111:	learn: 0.2742573	total: 16.7s	remaining: 2m 12s
112:	learn: 0.2739303	total: 16.9s	remaining: 2m 12s
113:	learn: 0.2736157	total: 17s	remaining: 2m 12s
114:	learn: 0.2732729	total: 17.1s	remaining: 2m 11s
115:	learn: 0.2729481	total: 17.2s	remaining: 2m 11s
116:	learn: 0.2726784	total: 17.4s	remaining: 2m 11s
117:	learn: 0.2723723	total: 17.5s	remaining: 2m 10s
118:	learn: 0.2720673	total: 17.6s	remaining: 2m 10s
119:	learn: 0.2717306	total: 17.8s	remaining: 2m 10s
120:	learn: 0.2714334	total: 17.9s	remaining: 2m 9s
121:	learn: 0.2711042	total: 18s	remaining: 2m 9s
122:	learn: 0.2708291	total: 18.1s	remaining: 2m 9s
123:	learn: 0.2705194	total: 18.3s	remaining: 2m 9s
124:	learn: 0.2702204	total: 18.4s	remaining: 2m 8s
125:	learn: 0.2699756	total: 18.5s	remaining: 2m 8s
126:	learn: 0.2696747	total: 18.7s	remaining: 2m 8s
127:	learn: 0.2694056	total: 18.8s	remaining: 2m 8s
128:	learn: 0.2691242	total: 18.9s	remaining: 2m 7s
129:	learn: 0.2688401	total: 19.1s	remaining: 2m 7s
130:	learn: 0.2685554	total: 19.2s	remaining: 2m 7s
131:	learn: 0.2682836	total: 19.3s	remaining: 2m 7s
132:	learn: 0.2679743	total: 19.5s	remaining: 2m 6s
133:	learn: 0.2676507	total: 19.6s	remaining: 2m 6s
134:	learn: 0.2673425	total: 19.7s	remaining: 2m 6s
135:	learn: 0.2670582	total: 19.8s	remaining: 2m 6s
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126.	1 0 2667540	+-+-1. 20-		2m F-
136:	learn: 0.2667540	total: 20s	remaining:	
137:	learn: 0.2664817	total: 20.1s	remaining:	
138:	learn: 0.2661980	total: 20.3s	remaining:	
139:	learn: 0.2659148	total: 20.4s	remaining:	
140:	learn: 0.2656662	total: 20.5s	remaining:	
141:	learn: 0.2653868	total: 20.6s	remaining:	
142:	learn: 0.2651085	total: 20.8s	remaining:	
143:	learn: 0.2648499	total: 20.9s	remaining:	2m 4s
144:	learn: 0.2645801	total: 21.1s	remaining:	2m 4s
145:	learn: 0.2643120	total: 21.2s	remaining:	2m 3s
146:	learn: 0.2640752	total: 21.3s	remaining:	2m 3s
147:	learn: 0.2638623	total: 21.4s	remaining:	2m 3s
148:	learn: 0.2635976	total: 21.6s	remaining:	2m 3s
149:	learn: 0.2633481	total: 21.7s	remaining:	
150:	learn: 0.2630695	total: 21.8s	remaining:	
151:	learn: 0.2628007	total: 22s	remaining:	
152:	learn: 0.2625319	total: 22.1s	remaining:	
153:	learn: 0.2622754	total: 22.3s	remaining:	
154:	learn: 0.2620242	total: 22.4s	remaining:	
155:	learn: 0.2617999	total: 22.5s	remaining:	
155: 156:	learn: 0.2615399	total: 22.7s	remaining:	
			_	
157:	learn: 0.2612896	total: 22.8s	remaining:	
158:	learn: 0.2610457	total: 22.9s	remaining:	
159:	learn: 0.2607931	total: 23.1s	remaining:	2m 1s
160:	learn: 0.2605180	total: 23.2s	remaining:	2m
161:	learn: 0.2602834	total: 23.3s	remaining:	2m
162:	learn: 0.2600614	total: 23.5s	remaining:	2m
163:	learn: 0.2597933	total: 23.6s	remaining:	2m
164:	learn: 0.2595617	total: 23.7s	remaining:	2m
165:	learn: 0.2592810	total: 23.9s	remaining:	
166:	learn: 0.2590391	total: 24s	remaining:	1m 59s
167:	learn: 0.2587806	total: 24.1s	remaining:	1m 59s
168:	learn: 0.2585268	total: 24.3s	remaining:	1m 59s
169:	learn: 0.2582560	total: 24.4s	remaining:	1m 59s
170:	learn: 0.2579983	total: 24.6s	remaining:	1m 59s
171:	learn: 0.2577474	total: 24.7s	remaining:	1m 58s
172:	learn: 0.2575268	total: 24.8s	remaining:	1m 58s
173:	learn: 0.2572845	total: 25s	remaining:	1m 58s
174:	learn: 0.2570502	total: 25.1s	remaining:	
175:	learn: 0.2568112	total: 25.3s	remaining:	1m 58s
176:	learn: 0.2565647	total: 25.4s	remaining:	1m 58s
177:	learn: 0.2563410	total: 25.5s	remaining:	1m 57s
177: 178:	learn: 0.2561005	total: 25.7s	remaining:	1m 57s
178: 179:	learn: 0.2558842	total: 25.7s	remaining:	
			_	
180:	learn: 0.2556504	total: 26s	remaining:	
181:	learn: 0.2554392	total: 26.2s	remaining:	1m 57s
182:	learn: 0.2552025	total: 26.4s	remaining:	
183:	learn: 0.2549831	total: 26.5s	remaining:	1m 57s
184:	learn: 0.2547463	total: 26.7s	_	
185:	learn: 0.2545243	total: 26.8s	remaining:	
186:	learn: 0.2543035	total: 27s	remaining:	1m 57s
187:	learn: 0.2540937	total: 27.1s	remaining:	1m 57s
188:	learn: 0.2538757	total: 27.3s	remaining:	1m 56s
189:	learn: 0.2536550	total: 27.4s	remaining:	1m 56s
190:	learn: 0.2534007	total: 27.5s	remaining:	1m 56s
191:	learn: 0.2531790	total: 27.7s	remaining:	1m 56s
192:	learn: 0.2529539	total: 27.8s	remaining:	1m 56s
193:	learn: 0.2527413	total: 27.9s	remaining:	1m 56s
194:	learn: 0.2525238	total: 28.1s	remaining:	
•	: 			

105.	loann	a 2522170	+0+01.	20 26	nomaining	1 m	E E c
195:		0.2523179	total:		remaining:		
196:		0.2521157	total:		remaining:		
197:		0.2519241	total:		remaining:		
198:		0.2517055	total:		remaining:		
199:		0.2515075	total:		remaining:		
200:		0.2513020	total:		remaining:		54s
201:		0.2511023	total:		remaining:		
202:		0.2509040	total:		remaining:		
203:		0.2506869	total:		remaining:		
204:	learn:	0.2504750	total:	29.5s	remaining:		
205:	learn:	0.2502795	total:	29.6s	remaining:	1 m	54s
206:	learn:	0.2500882	total:	29.7s	remaining:	1 m	53s
207:	learn:	0.2498842	total:	29.9s	remaining:	1 m	53s
208:	learn:	0.2496925	total:	30s	remaining:	1 m	53s
209:	learn:	0.2495007	total:	30.1s	remaining:	1 m	53s
210:	learn:	0.2492999	total:	30.3s	remaining:	1 m	53s
211:	learn:	0.2491112	total:	30.4s	remaining:		52s
212:	learn:	0.2489266	total:	30.5s	remaining:		
213:		0.2487374	total:		remaining:		
214:		0.2485575	total:		remaining:		
215:		0.2483638	total:		remaining:		52s
216:		0.2481574	total:		remaining:		52s
217:		0.2479617	total:		remaining:		
217:		0.2479017 0.2477929	total:		remaining:		
					•		
219:		0.2475936	total:		remaining:		51s
220:		0.2473969	total:		remaining:		51s
221:		0.2471888	total:		remaining:		51s
222:		0.2469996	total:		remaining:		
223:		0.2468165	total:		remaining:		
224:		0.2466529	total:		remaining:		50s
225:		0.2464591	total:		remaining:		
226:		0.2462724	total:		remaining:		50s
227:		0.2460543	total:		remaining:		50s
228:	learn:	0.2458656	total:	32.6s	remaining:		49s
229:	learn:	0.2456853	total:	32.8s	remaining:	1 m	49s
230:	learn:	0.2454964	total:	32.9s	remaining:	1 m	49s
231:	learn:	0.2453275	total:	33s	remaining:	1 m	49s
232:	learn:	0.2451382	total:	33.2s	remaining:	1 m	49s
233:	learn:	0.2449636	total:	33.3s	remaining:	1 m	49s
234:	learn:	0.2447841	total:	33.5s	remaining:	1 m	48s
235:	learn:	0.2445995	total:	33.6s	remaining:	1m	48s
236:	learn:	0.2444199	total:	33.7s	remaining:		48s
237:	learn:	0.2442386	total:	33.9s	remaining:		48s
238:		0.2440622	total:		remaining:		
239:		0.2438748	total:		remaining:		48s
240:		0.2436918	total:		remaining:		47s
241:		0.2434992	total:		remaining:		47s
242:		0.2433163	total:		remaining:		
243:		0.2431102	total:		remaining:		
244:		0.2429369	total:		remaining:		47s
244:		0.2429369 0.2427700	total:		remaining:		47s 47s
245: 246:					_		
		0.2425810	total:		remaining:		
247:		0.2424124	total:		remaining:		
248:		0.2422546	total:		remaining:		46s
249:		0.2420800	total:		remaining:		46s
250:		0.2419250	total:		remaining:		46s
251:		0.2417446	total:		remaining:		46s
252:		0.2415886	total:		remaining:		46s
253:	learn:	0.2414248	total:	36.1s	remaining:	1m	46s

254.	1 0 2412611	+-+-1. 2C	2	1 1.
254:	learn: 0.2412611	total: 36	9	
255:	learn: 0.2411050	total: 36	U	
256:	learn: 0.2409207	total: 36	9	1m 45s
257:	learn: 0.2407558		.7s remaining:	
258:	learn: 0.2405872	total: 36	O .	
259:	learn: 0.2404203	total: 37	O O	1m 45s
260:	learn: 0.2402565	total: 37	<pre>.1s remaining:</pre>	
261:	learn: 0.2400996	total: 37	.3s remaining:	1m 45s
262:	learn: 0.2399361	total: 37	.5s remaining:	1m 44s
263:	learn: 0.2397642	total: 37	<pre>.6s remaining:</pre>	1m 44s
264:	learn: 0.2396046	total: 37	.8s remaining:	1m 44s
265:	learn: 0.2394458	total: 37	.9s remaining:	1m 44s
266:	learn: 0.2392777	total: 38	_	
267:	learn: 0.2391160		.2s remaining:	
268:	learn: 0.2389470	total: 38	•	
269:	learn: 0.2387835		.5s remaining:	1m 44s
270:	learn: 0.2386317		.6s remaining:	1m 43s
271:	learn: 0.2384636	total: 38	•	
			.9s remaining.	
272:			•	
273:	learn: 0.2381579	total: 39	O O	
274:	learn: 0.2380134	total: 39	9	1m 43s
275:	learn: 0.2378478		.3s remaining:	1m 43s
276:	learn: 0.2376926	total: 39	O O	
277:	learn: 0.2375375		<pre>.6s remaining:</pre>	1m 42s
278:	learn: 0.2373685		<pre>.8s remaining:</pre>	
279:	learn: 0.2372228	total: 39	<pre>.9s remaining:</pre>	1m 42s
280:	learn: 0.2370685	total: 40	s remaining:	1m 42s
281:	learn: 0.2369272	total: 40	.2s remaining:	1m 42s
282:	learn: 0.2367799	total: 40	.3s remaining:	1m 42s
283:	learn: 0.2366217	total: 40	.5s remaining:	1m 41s
284:	learn: 0.2364957	total: 40	.6s remaining:	1m 41s
285:	learn: 0.2363493	total: 40	0	
286:	learn: 0.2361820	total: 40	O O	
287:	learn: 0.2360260	total: 41	O .	
288:	learn: 0.2358836	total: 41	•	
289:	learn: 0.2357360	total: 41	•	
290:	learn: 0.2355951	total: 41		
290:	learn: 0.2354419	total: 41		
			9	
292:	learn: 0.2353099	total: 41	O O	
293:	learn: 0.2351464	total: 41	•	1m 40s
294:	learn: 0.2350135	total: 42	O O	1m 40s
295:	learn: 0.2348575	total: 42	9	
296:	learn: 0.2347070	total: 42	9	
297:	learn: 0.2345653	total: 42	9	
298:	learn: 0.2344255	total: 42	.8s remaining:	
299:	learn: 0.2342753	total: 42	.9s remaining:	1m 40s
300:	learn: 0.2341222	total: 43	s remaining:	1m 39s
301:	learn: 0.2339591	total: 43	<pre>.2s remaining:</pre>	1m 39s
302:	learn: 0.2338014	total: 43	.4s remaining:	1m 39s
303:	learn: 0.2336392	total: 43	•	
304:	learn: 0.2334776	total: 43	•	
305:	learn: 0.2333316	total: 43	•	
306:	learn: 0.2331849	total: 43	•	
307:	learn: 0.2330359	total: 44	•	
308:	learn: 0.2328887	total: 44	•	
			•	
309:		total: 44	•	
310:	learn: 0.2325970	total: 44	9	
311:	learn: 0.2324537	total: 44	U	
312:	learn: 0.2322933	total: 44	.8s remaining:	1m 38s

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313:	learn: 0.2321410	total: 44.9s	remaining:	
314:	learn: 0.2319988	total: 45.1s	remaining:	
315:	learn: 0.2318362	total: 45.2s	remaining:	
316:	learn: 0.2316945	total: 45.3s	remaining:	
317:	learn: 0.2315389	total: 45.5s	remaining:	
318:	learn: 0.2314000	total: 45.6s	_	1m 37s
319:	learn: 0.2312232	total: 45.8s	remaining:	
320:	learn: 0.2310670	total: 45.9s	remaining:	1m 37s
321:	learn: 0.2309291	total: 46.1s	remaining:	1m 36s
322:	learn: 0.2307850	total: 46.2s	remaining:	1m 36s
323:	learn: 0.2306339	total: 46.3s	remaining:	1m 36s
324:	learn: 0.2304858	total: 46.5s	remaining:	1m 36s
325:	learn: 0.2303465	total: 46.6s	remaining:	1m 36s
326:	learn: 0.2302039	total: 46.8s	remaining:	1m 36s
327:	learn: 0.2300588	total: 46.9s	remaining:	
328:	learn: 0.2299235	total: 47s	remaining:	
329:	learn: 0.2297789	total: 47.2s	_	1m 35s
330:	learn: 0.2296418	total: 47.3s	remaining:	
331:	learn: 0.2294960	total: 47.4s	remaining:	
332:	learn: 0.2293725	total: 47.45	remaining:	
333:	learn: 0.2292430	total: 47.03	remaining:	
334:	learn: 0.2291006	total: 47.73		1m 34s
334. 335:	learn: 0.2289587	total: 47.95	remaining:	
			_	
336:	learn: 0.2288109	total: 48.1s	remaining:	
337:	learn: 0.2286749	total: 48.3s	_	1m 34s
338:	learn: 0.2285355	total: 48.4s	•	1m 34s
339:	learn: 0.2284124	total: 48.6s	•	1m 34s
340:	learn: 0.2282768	total: 48.7s	remaining:	
341:	learn: 0.2281460	total: 48.9s	remaining:	
342:	learn: 0.2280000	total: 49s	remaining:	
343:	learn: 0.2278690	total: 49.1s	remaining:	
344:	learn: 0.2277148	total: 49.3s	remaining:	
345:	learn: 0.2275660	total: 49.4s	remaining: 1	
346:	learn: 0.2274332	total: 49.5s	remaining:	1m 33s
347:	learn: 0.2273023	total: 49.7s	remaining:	1m 33s
348:	learn: 0.2271678	total: 49.8s	remaining:	1m 32s
349:	learn: 0.2270177	total: 50s	remaining:	1m 32s
350:	learn: 0.2268936	total: 50.1s	remaining:	1m 32s
351:	learn: 0.2267458	total: 50.3s	remaining:	1m 32s
352:	learn: 0.2266122	total: 50.4s	remaining:	1m 32s
353:	learn: 0.2264522	total: 50.6s	_	1m 32s
354:	learn: 0.2263232	total: 50.7s	remaining:	
355:	learn: 0.2262020	total: 50.8s	remaining:	
356:	learn: 0.2260815	total: 51s	remaining:	
357:	learn: 0.2259429	total: 51.1s	remaining:	
358:	learn: 0.2258206	total: 51.3s	•	1m 31s
359:	learn: 0.2256960	total: 51.4s	remaining:	
360:	learn: 0.2255822	total: 51.43	remaining:	
361:	learn: 0.2254570	total: 51.7s	remaining:	
		total: 51.7s	_	
362:	learn: 0.2253377		remaining:	
363:	learn: 0.2252141	total: 51.9s	_	1m 30s
364:	learn: 0.2250821	total: 52.1s	remaining:	
365:	learn: 0.2249616	total: 52.2s	remaining:	
366:	learn: 0.2248400	total: 52.3s	remaining:	
367:	learn: 0.2247150	total: 52.5s	remaining:	
368:	learn: 0.2245914	total: 52.6s	•	1m 29s
369:	learn: 0.2244636	total: 52.7s	remaining:	
370:	learn: 0.2243331	total: 52.9s	remaining:	
371:	learn: 0.2242157	total: 53s	remaining:	1m 29s

372: learn: 0.2240836 total: 53.1s remaining: In 29s 374: learn: 0.2238944 total: 53.4s remaining: In 29s 376: learn: 0.2235723 total: 53.4s remaining: In 29s 377: learn: 0.2234421 total: 53.8s remaining: In 28s 378: learn: 0.2231828 total: 54.1s remaining: In 28s 380: learn: 0.2237864 total: 54.4s remaining: In 28s 381: learn: 0.2226754 total: 54.6s remaining: In 27s 384: learn: 0.22256754 total: 54.5s remaining: In 27s 385: learn: 0.222787 total: 55.8s remaining: In 27s 386: learn: 0.2221601 total: 55.2s remaining: In 27s 387: learn: 0.2221601 total: 55.4s	372:	learn: 0.2	22/0836	total:	53 1c	remaining:	1 m	29c
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392: learn: 0.2215154 total: 55.9s remaining: 1m 26s 393: learn: 0.2212639 total: 56.1s remaining: 1m 26s 394: learn: 0.2212639 total: 56.2s remaining: 1m 26s 395: learn: 0.2210371 total: 56.3s remaining: 1m 25s 396: learn: 0.2209176 total: 56.6s remaining: 1m 25s 397: learn: 0.2209176 total: 56.6s remaining: 1m 25s 398: learn: 0.2209176 total: 56.6s remaining: 1m 25s 399: learn: 0.2207916 total: 56.6s remaining: 1m 25s 399: learn: 0.2206717 total: 56.9s remaining: 1m 25s 400: learn: 0.2204388 total: 57.1s remaining: 1m 25s 401: learn: 0.2204388 total: 57.1s remaining: 1m 25s 402: learn: 0.2203165 total: 57.1s remaining: 1m 25s 404: learn: 0.22041788 total: 57.4s remaining: 1m 24s 404: learn: 0.2200618 total: 57.4s remaining: 1m 24s 405: learn: 0.2199445 total: 57.6s remaining: 1m 24s 405: learn: 0.2199445 total: 57.7s remaining: 1m 24s 406: learn: 0.2198205 total: 58.1s remaining: 1m 24s 409: learn: 0.2195741 total: 58.1s remaining: 1m 24s 409: learn: 0.2195741 total: 58.4s remaining: 1m 24s 410: learn: 0.2193226 total: 58.6s remaining: 1m 24s 410: learn: 0.2193226 total: 58.6s remaining: 1m 23s 411: learn: 0.2193242 total: 58.8s remaining: 1m 23s 412: learn: 0.2198382 total: 59.2s remaining: 1m 23s 413: learn: 0.218382 total: 59.2s remaining: 1m 23s 416: learn: 0.218382 total: 59.2s remaining: 1m 23s 416: learn: 0.2184957 total: 59.8s remaining: 1m 23s 417: learn: 0.2184957 total: 59.8s remaining: 1m 23s 419: learn: 0.2184957 total: 59.9s remaining: 1m 22s 420: learn: 0.2180219 total: 1m remaining: 1m 22s 420: learn: 0.2180219 total: 1m remaining: 1m 22s 420: learn: 0.217600 total: 1m remaining: 1m 22s 420: learn: 0.217600 total: 1m remaining: 1m 22s 420: learn: 0.217600 total: 1m remaining: 1m 22s 420: learn: 0.2174470 total: 1m remaining: 1m 21s 426: learn: 0.217274 total: 1m remaining: 1m 21s 426: learn: 0.217274 total: 1m remaining: 1m 21s 426: learn: 0.2174470 total: 1m remaining: 1m 21s 429: learn: 0.2171239 total: 1m remaining: 1m 21s 429: learn: 0.2171239	390:	learn: 0.2	2217703	total:	55.7s	remaining:	1 m	26s
393: learn: 0.2213897 total: 56.1s remaining: 1m 26s 394: learn: 0.2212639 total: 56.2s remaining: 1m 26s 395: learn: 0.2211450 total: 56.2s remaining: 1m 25s 396: learn: 0.2209176 total: 56.5s remaining: 1m 25s 397: learn: 0.2209176 total: 56.6s remaining: 1m 25s 398: learn: 0.2209176 total: 56.7s remaining: 1m 25s 398: learn: 0.2207916 total: 56.7s remaining: 1m 25s 400: learn: 0.2206717 total: 56.7s remaining: 1m 25s 401: learn: 0.2204388 total: 57.1s remaining: 1m 25s 402: learn: 0.2204388 total: 57.1s remaining: 1m 25s 403: learn: 0.2204388 total: 57.4s remaining: 1m 24s 404: learn: 0.2201788 total: 57.4s remaining: 1m 24s 404: learn: 0.2201788 total: 57.6s remaining: 1m 24s 405: learn: 0.2198205 total: 57.7s remaining: 1m 24s 406: learn: 0.2198205 total: 57.7s remaining: 1m 24s 407: learn: 0.2198205 total: 57.9s remaining: 1m 24s 408: learn: 0.2197012 total: 58.1s remaining: 1m 24s 409: learn: 0.2195741 total: 58.3s remaining: 1m 24s 409: learn: 0.2195741 total: 58.4s remaining: 1m 24s 410: learn: 0.2194509 total: 58.8s remaining: 1m 23s 411: learn: 0.219042 total: 58.8s remaining: 1m 23s 412: learn: 0.2190791 total: 58.8s remaining: 1m 23s 413: learn: 0.2186067 total: 59.5s remaining: 1m 23s 414: learn: 0.2184957 total: 59.5s remaining: 1m 23s 415: learn: 0.2184957 total: 59.5s remaining: 1m 23s 416: learn: 0.2184957 total: 59.8s remaining: 1m 23s 417: learn: 0.2184957 total: 59.8s remaining: 1m 22s 420: learn: 0.2182540 total: 59.8s remaining: 1m 22s 421: learn: 0.2184957 total: 1m remaining: 1m 22s 422: learn: 0.2176743 total: 1m remaining: 1m 22s 423: learn: 0.2176743 total: 1m remaining: 1m 22s 424: learn: 0.2174470 total: 1m remaining: 1m 21s 425: learn: 0.2174470 total: 1m remaining: 1m 21s 426: learn: 0.217274 total: 1m remaining: 1m 21s 427: learn: 0.217274 total: 1m remaining: 1m 21s 428: learn: 0.217274 total: 1m remaining: 1m 21s 429: learn: 0.217274 total: 1m remaining: 1m 21s	391:	learn: 0.2	2216419	total:	55.8s	remaining:	1 m	26s
394: learn: 0.2212639 total: 56.2s remaining: 1m 25s 395: learn: 0.221450 total: 56.3s remaining: 1m 25s 396: learn: 0.2210371 total: 56.5s remaining: 1m 25s 397: learn: 0.2209176 total: 56.6s remaining: 1m 25s 398: learn: 0.2207916 total: 56.6s remaining: 1m 25s 399: learn: 0.2206717 total: 56.9s remaining: 1m 25s 400: learn: 0.2205581 total: 57.s remaining: 1m 25s 401: learn: 0.2204388 total: 57.1s remaining: 1m 25s 402: learn: 0.2204388 total: 57.1s remaining: 1m 24s 403: learn: 0.2201788 total: 57.3s remaining: 1m 24s 404: learn: 0.2200618 total: 57.4s remaining: 1m 24s 405: learn: 0.2199445 total: 57.7s remaining: 1m 24s 406: learn: 0.2199445 total: 57.7s remaining: 1m 24s 407: learn: 0.2199412 total: 57.7s remaining: 1m 24s 408: learn: 0.2197012 total: 58.1s remaining: 1m 24s 409: learn: 0.2195741 total: 58.3s remaining: 1m 24s 409: learn: 0.2195741 total: 58.4s remaining: 1m 24s 410: learn: 0.2194509 total: 58.6s remaining: 1m 23s 411: learn: 0.2192042 total: 58.8s remaining: 1m 23s 412: learn: 0.2190791 total: 58.8s remaining: 1m 23s 413: learn: 0.2189590 total: 59.2s remaining: 1m 23s 414: learn: 0.2188382 total: 59.2s remaining: 1m 23s 415: learn: 0.2188382 total: 59.2s remaining: 1m 23s 416: learn: 0.2184957 total: 59.8s remaining: 1m 23s 417: learn: 0.2184957 total: 59.8s remaining: 1m 23s 418: learn: 0.2184957 total: 59.9s remaining: 1m 23s 419: learn: 0.2180219 total: 59.9s remaining: 1m 22s 420: learn: 0.2181325 total: 1m remaining: 1m 22s 421: learn: 0.2180219 total: 1m remaining: 1m 22s 422: learn: 0.2177669 total: 1m remaining: 1m 22s 423: learn: 0.2177669 total: 1m remaining: 1m 21s 425: learn: 0.2174470 total: 1m remaining: 1m 21s 426: learn: 0.2174274 total: 1m remaining: 1m 21s 427: learn: 0.2171239 total: 1m remaining: 1m 21s 428: learn: 0.2171239 total: 1m remaining: 1m 21s	392:	learn: 0.2	2215154	total:	55.9s	remaining:	1 m	26s
395: learn: 0.2211450	393:	learn: 0.2	2213897	total:	56.1s	remaining:	1 m	26s
396: learn: 0.2210371 total: 56.5s remaining: 1m 25s 397: learn: 0.2209176 total: 56.6s remaining: 1m 25s 398: learn: 0.2207916 total: 56.7s remaining: 1m 25s 399: learn: 0.2207916 total: 56.7s remaining: 1m 25s 400: learn: 0.2205581 total: 575 remaining: 1m 25s 400: learn: 0.2204388 total: 57.1s remaining: 1m 25s 401: learn: 0.2204388 total: 57.1s remaining: 1m 25s 402: learn: 0.2203165 total: 57.3s remaining: 1m 24s 403: learn: 0.2201788 total: 57.4s remaining: 1m 24s 404: learn: 0.2200618 total: 57.6s remaining: 1m 24s 405: learn: 0.2199445 total: 57.7s remaining: 1m 24s 406: learn: 0.2198205 total: 57.7s remaining: 1m 24s 407: learn: 0.2197012 total: 58.1s remaining: 1m 24s 408: learn: 0.2195741 total: 58.1s remaining: 1m 24s 409: learn: 0.2195741 total: 58.4s remaining: 1m 24s 409: learn: 0.2193226 total: 58.6s remaining: 1m 24s 410: learn: 0.2193226 total: 58.6s remaining: 1m 23s 411: learn: 0.2192042 total: 58.8s remaining: 1m 23s 412: learn: 0.2190791 total: 58.9s remaining: 1m 23s 413: learn: 0.2189590 total: 59.5s remaining: 1m 23s 414: learn: 0.2187217 total: 59.2s remaining: 1m 23s 415: learn: 0.2187217 total: 59.5s remaining: 1m 23s 416: learn: 0.2184957 total: 59.8s remaining: 1m 23s 417: learn: 0.2184957 total: 59.9s remaining: 1m 23s 418: learn: 0.2184957 total: 59.9s remaining: 1m 22s 429: learn: 0.2187217 total: 59.9s remaining: 1m 22s 420: learn: 0.21872190 total: 59.9s remaining: 1m 22s 421: learn: 0.2187256 total: 1m remaining: 1m 22s 422: learn: 0.2176743 total: 1m remaining: 1m 22s 424: learn: 0.2176743 total: 1m remaining: 1m 21s 425: learn: 0.217470 total: 1m remaining: 1m 21s 426: learn: 0.2174277 total: 1m remaining: 1m 21s 427: learn: 0.2172274 total: 1m remaining: 1m 21s 428: learn: 0.2172274 total: 1m remaining: 1m 21s 429: learn: 0.2171239 total: 1m remaining: 1m 21s	394:	learn: 0.2	2212639	total:	56.2s	remaining:	1 m	26s
397: learn: 0.2209176	395:	learn: 0.2	2211450	total:	56.3s	remaining:	1 m	25s
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429: learn: 0.2171239 total: 1m 1s remaining: 1m 21s								
<u> </u>						_		
	430:	learn: 0.2	2170032	total:	1m 1s	•		

431:	learn: 0.2168877	total: 1m 1s	remaining: 1m 20s
431:	learn: 0.2167859	total: 1m 1s	remaining: 1m 20s
432:	learn: 0.2166662	total: 1m 1s	remaining: 1m 20s
434:	learn: 0.2165412	total: 1m 1s	remaining: 1m 20s
435:	learn: 0.2164357	total: 1m 2s	remaining: 1m 20s
436:	learn: 0.2163178	total: 1m 2s	remaining: 1m 20s
430:	learn: 0.2162048	total: 1m 2s	remaining: 1m 19s
437:	learn: 0.2160942	total: 1m 2s	remaining: 1m 19s
438:	learn: 0.2159852	total: 1m 2s	remaining: 1m 19s
439. 440:	learn: 0.2158881	total: 1m 2s	remaining: 1m 19s
440: 441:	learn: 0.2157541	total: 1m 2s	remaining: 1m 19s
442:	learn: 0.2156489	total: 1m 3s	remaining: 1m 19s
442:	learn: 0.2155239	total: 1m 3s	remaining: 1m 19s
443. 444:	learn: 0.2154157	total: 1m 3s	remaining: 1m 18s
445:	learn: 0.2153037	total: 1m 3s	remaining: 1m 18s
445. 446:	learn: 0.2151773	total: 1m 3s	remaining: 1m 18s
440. 447:	learn: 0.2150653	total: 1m 3s	remaining: 1m 18s
447. 448:	learn: 0.2149553	total: 1m 3s	remaining: 1m 18s
440. 449:	learn: 0.2148435	total: 1m 4s	•
449. 450:	learn: 0.2147372	total: 1m 4s	remaining: 1m 18s remaining: 1m 18s
450. 451:	learn: 0.214/5/2	total: 1m 4s	remaining: 1m 17s
451. 452:	learn: 0.2145290	total: 1m 4s	•
452. 453:	learn: 0.2144269	total: 1m 4s	•
453: 454:	learn: 0.2144269	total: 1m 4s	remaining: 1m 17s
			remaining: 1m 17s
455:	learn: 0.2141840	total: 1m 4s	remaining: 1m 17s
456: 457:	learn: 0.2140729	total: 1m 4s total: 1m 5s	remaining: 1m 17s
	learn: 0.2139578	total: 1m 5s	remaining: 1m 17s
458:	learn: 0.2138448 learn: 0.2137323	total: 1m 5s	remaining: 1m 16s
459:			remaining: 1m 16s
460:	learn: 0.2136280 learn: 0.2135004	total: 1m 5s	remaining: 1m 16s
461:		total: 1m 5s	remaining: 1m 16s
462: 463:	learn: 0.2133932	total: 1m 5s	remaining: 1m 16s
	learn: 0.2132826	total: 1m 5s	remaining: 1m 16s
464:	learn: 0.2131690	total: 1m 6s	remaining: 1m 16s
465:	learn: 0.2130657	total: 1m 6s	remaining: 1m 15s
466:	learn: 0.2129470	total: 1m 6s	remaining: 1m 15s
467:	learn: 0.2128470	total: 1m 6s	remaining: 1m 15s
468:	learn: 0.2127344	total: 1m 6s	remaining: 1m 15s
469:	learn: 0.2126216	total: 1m 6s	remaining: 1m 15s
470:	learn: 0.2124960	total: 1m 6s	remaining: 1m 15s
471:	learn: 0.2123753	total: 1m 7s	remaining: 1m 15s
472:	learn: 0.2122657	total: 1m 7s	remaining: 1m 14s
473:	learn: 0.2121530	total: 1m 7s	remaining: 1m 14s
474:	learn: 0.2120348	total: 1m 7s	remaining: 1m 14s
475:	learn: 0.2119010	total: 1m 7s	remaining: 1m 14s
476:	learn: 0.2118019	total: 1m 7s	remaining: 1m 14s
477:	learn: 0.2116996	total: 1m 7s	remaining: 1m 14s
478:	learn: 0.2115762	total: 1m 8s	remaining: 1m 14s
479:	learn: 0.2114630	total: 1m 8s	remaining: 1m 13s
480:	learn: 0.2113705	total: 1m 8s	remaining: 1m 13s
481:	learn: 0.2112404	total: 1m 8s	remaining: 1m 13s
482:	learn: 0.2111072	total: 1m 8s	remaining: 1m 13s
483:	learn: 0.2109885	total: 1m 8s	remaining: 1m 13s
484:	learn: 0.2108783	total: 1m 8s	remaining: 1m 13s
485:	learn: 0.2107942	total: 1m 9s	remaining: 1m 13s
486:	learn: 0.2106753	total: 1m 9s	remaining: 1m 12s
487:	learn: 0.2105706	total: 1m 9s	remaining: 1m 12s
488:	learn: 0.2104581	total: 1m 9s	remaining: 1m 12s
489:	learn: 0.2103483	total: 1m 9s	remaining: 1m 12s

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490:
                                 total: 1m 9s
                                                   remaining: 1m 12s
        learn: 0.2102364
491:
        learn: 0.2101302
                                 total: 1m 9s
                                                   remaining: 1m 12s
492:
                                 total: 1m 10s
                                                   remaining: 1m 12s
        learn: 0.2100255
493:
                                 total: 1m 10s
                                                   remaining: 1m 11s
        learn: 0.2099307
494:
        learn: 0.2098065
                                 total: 1m 10s
                                                   remaining: 1m 11s
495:
        learn: 0.2097111
                                 total: 1m 10s
                                                   remaining: 1m 11s
496:
        learn: 0.2096023
                                 total: 1m 10s
                                                   remaining: 1m 11s
                                                   remaining: 1m 11s
497:
                                 total: 1m 10s
        learn: 0.2095105
498:
        learn: 0.2094258
                                 total: 1m 10s
                                                   remaining: 1m 11s
499:
        learn: 0.2093233
                                 total: 1m 10s
                                                   remaining: 1m 10s
500:
        learn: 0.2092209
                                 total: 1m 11s
                                                   remaining: 1m 10s
                                 total: 1m 11s
501:
        learn: 0.2091015
                                                   remaining: 1m 10s
502:
        learn: 0.2090083
                                 total: 1m 11s
                                                   remaining: 1m 10s
                                 total: 1m 11s
503:
        learn: 0.2089121
                                                   remaining: 1m 10s
                                 total: 1m 11s
                                                   remaining: 1m 10s
504:
        learn: 0.2088056
                                                   remaining: 1m 10s
505:
        learn: 0.2087143
                                 total: 1m 11s
                                 total: 1m 11s
506:
        learn: 0.2086128
                                                   remaining: 1m 9s
507:
        learn: 0.2085066
                                 total: 1m 12s
                                                   remaining: 1m 9s
        learn: 0.2084133
                                 total: 1m 12s
508:
                                                   remaining: 1m 9s
509:
        learn: 0.2083017
                                 total: 1m 12s
                                                   remaining: 1m 9s
510:
        learn: 0.2082046
                                 total: 1m 12s
                                                   remaining: 1m 9s
                                 total: 1m 12s
511:
        learn: 0.2080958
                                                   remaining: 1m 9s
512:
        learn: 0.2079928
                                 total: 1m 12s
                                                   remaining: 1m 9s
513:
        learn: 0.2078963
                                 total: 1m 12s
                                                   remaining: 1m 9s
514:
                                 total: 1m 13s
        learn: 0.2077879
                                                   remaining: 1m 8s
                                 total: 1m 13s
515:
        learn: 0.2076830
                                                   remaining: 1m 8s
516:
        learn: 0.2075877
                                 total: 1m 13s
                                                   remaining: 1m 8s
517:
                                 total: 1m 13s
        learn: 0.2074757
                                                   remaining: 1m 8s
518:
        learn: 0.2073704
                                 total: 1m 13s
                                                   remaining: 1m 8s
519:
        learn: 0.2072943
                                 total: 1m 13s
                                                   remaining: 1m 8s
520:
        learn: 0.2071961
                                 total: 1m 14s
                                                   remaining: 1m 8s
                                                   remaining: 1m 8s
521:
        learn: 0.2070930
                                 total: 1m 14s
522:
        learn: 0.2070010
                                 total: 1m 14s
                                                   remaining: 1m 7s
523:
        learn: 0.2069072
                                 total: 1m 14s
                                                   remaining: 1m 7s
524:
        learn: 0.2068054
                                 total: 1m 14s
                                                   remaining: 1m 7s
525:
                                 total: 1m 14s
        learn: 0.2067091
                                                   remaining: 1m 7s
                                 total: 1m 15s
526:
        learn: 0.2065919
                                                   remaining: 1m 7s
527:
                                 total: 1m 15s
                                                   remaining: 1m 7s
        learn: 0.2064980
                                 total: 1m 15s
528:
        learn: 0.2063907
                                                   remaining: 1m 7s
529:
                                 total: 1m 15s
                                                   remaining: 1m 6s
        learn: 0.2063038
530:
                                 total: 1m 15s
                                                   remaining: 1m 6s
        learn: 0.2062052
531:
        learn: 0.2060960
                                 total: 1m 15s
                                                   remaining: 1m 6s
532:
        learn: 0.2060016
                                 total: 1m 15s
                                                   remaining: 1m 6s
533:
        learn: 0.2059090
                                 total: 1m 16s
                                                   remaining: 1m 6s
                                                   remaining: 1m 6s
534:
                                 total: 1m 16s
        learn: 0.2058163
535:
        learn: 0.2056986
                                 total: 1m 16s
                                                   remaining: 1m 6s
536:
        learn: 0.2056169
                                 total: 1m 16s
                                                   remaining: 1m 5s
                                 total: 1m 16s
537:
        learn: 0.2055230
                                                   remaining: 1m 5s
538:
                                 total: 1m 16s
        learn: 0.2054304
                                                   remaining: 1m 5s
539:
                                 total: 1m 16s
        learn: 0.2053477
                                                   remaining: 1m 5s
540:
        learn: 0.2052570
                                 total: 1m 16s
                                                   remaining: 1m 5s
541:
        learn: 0.2051530
                                 total: 1m 17s
                                                   remaining: 1m 5s
542:
        learn: 0.2050658
                                 total: 1m 17s
                                                   remaining: 1m 4s
543:
        learn: 0.2049618
                                 total: 1m 17s
                                                   remaining: 1m 4s
544:
        learn: 0.2048641
                                 total: 1m 17s
                                                   remaining: 1m 4s
                                 total: 1m 17s
545:
        learn: 0.2047548
                                                   remaining: 1m 4s
546:
        learn: 0.2046421
                                 total: 1m 17s
                                                   remaining: 1m 4s
547:
        learn: 0.2045426
                                 total: 1m 17s
                                                   remaining: 1m 4s
548:
        learn: 0.2044335
                                 total: 1m 18s
                                                   remaining: 1m 4s
```

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549:
                                 total: 1m 18s
                                                   remaining: 1m 3s
        learn: 0.2043456
550:
        learn: 0.2042378
                                 total: 1m 18s
                                                   remaining: 1m 3s
551:
                                 total: 1m 18s
                                                   remaining: 1m 3s
        learn: 0.2041612
                                 total: 1m 18s
                                                   remaining: 1m 3s
552:
        learn: 0.2040799
553:
        learn: 0.2039892
                                 total: 1m 18s
                                                   remaining: 1m 3s
554:
        learn: 0.2038903
                                 total: 1m 18s
                                                   remaining: 1m 3s
555:
        learn: 0.2037922
                                 total: 1m 19s
                                                   remaining: 1m 3s
                                                   remaining: 1m 2s
556:
                                 total: 1m 19s
        learn: 0.2037030
557:
        learn: 0.2036025
                                 total: 1m 19s
                                                   remaining: 1m 2s
558:
        learn: 0.2034993
                                 total: 1m 19s
                                                   remaining: 1m 2s
559:
        learn: 0.2033970
                                 total: 1m 19s
                                                   remaining: 1m 2s
                                 total: 1m 19s
560:
        learn: 0.2033046
                                                   remaining: 1m 2s
561:
        learn: 0.2032222
                                 total: 1m 19s
                                                   remaining: 1m 2s
                                 total: 1m 20s
562:
        learn: 0.2031197
                                                   remaining: 1m 2s
                                 total: 1m 20s
                                                   remaining: 1m 1s
563:
        learn: 0.2030449
                                 total: 1m 20s
564:
        learn: 0.2029395
                                                   remaining: 1m 1s
                                 total: 1m 20s
565:
        learn: 0.2028532
                                                   remaining: 1m 1s
566:
        learn: 0.2027539
                                 total: 1m 20s
                                                   remaining: 1m 1s
        learn: 0.2026621
567:
                                 total: 1m 20s
                                                   remaining: 1m 1s
568:
        learn: 0.2025678
                                 total: 1m 20s
                                                   remaining: 1m 1s
569:
        learn: 0.2024608
                                 total: 1m 20s
                                                   remaining: 1m 1s
                                 total: 1m 21s
570:
        learn: 0.2023783
                                                   remaining: 1m
571:
        learn: 0.2022834
                                 total: 1m 21s
                                                   remaining: 1m
572:
        learn: 0.2021921
                                 total: 1m 21s
                                                   remaining: 1m
573:
                                 total: 1m 21s
        learn: 0.2020991
                                                   remaining: 1m
574:
                                 total: 1m 21s
        learn: 0.2020078
                                                   remaining: 1m
575:
        learn: 0.2019044
                                 total: 1m 21s
                                                   remaining: 1m
576:
                                 total: 1m 21s
        learn: 0.2018093
                                                   remaining: 1m
577:
        learn: 0.2017238
                                 total: 1m 22s
                                                   remaining: 59.9s
                                                   remaining: 59.8s
578:
        learn: 0.2016364
                                 total: 1m 22s
579:
        learn: 0.2015355
                                 total: 1m 22s
                                                   remaining: 59.6s
580:
        learn: 0.2014465
                                 total: 1m 22s
                                                   remaining: 59.5s
                                 total: 1m 22s
581:
        learn: 0.2013487
                                                   remaining: 59.3s
582:
        learn: 0.2012604
                                 total: 1m 22s
                                                   remaining: 59.2s
583:
        learn: 0.2011639
                                 total: 1m 22s
                                                   remaining: 59.1s
584:
                                 total: 1m 23s
        learn: 0.2010640
                                                   remaining: 58.9s
                                 total: 1m 23s
585:
        learn: 0.2009775
                                                   remaining: 58.8s
                                 total: 1m 23s
586:
        learn: 0.2008905
                                                   remaining: 58.6s
                                 total: 1m 23s
587:
        learn: 0.2008058
                                                   remaining: 58.5s
                                 total: 1m 23s
588:
        learn: 0.2007214
                                                   remaining: 58.3s
589:
                                 total: 1m 23s
        learn: 0.2006445
                                                   remaining: 58.2s
590:
        learn: 0.2005485
                                 total: 1m 23s
                                                   remaining: 58.1s
591:
        learn: 0.2004649
                                 total: 1m 24s
                                                   remaining: 57.9s
                                                   remaining: 57.8s
592:
        learn: 0.2003805
                                 total: 1m 24s
        learn: 0.2002742
593:
                                 total: 1m 24s
                                                   remaining: 57.6s
594:
        learn: 0.2001865
                                 total: 1m 24s
                                                   remaining: 57.5s
595:
        learn: 0.2001063
                                 total: 1m 24s
                                                   remaining: 57.3s
                                 total: 1m 24s
596:
        learn: 0.2000090
                                                   remaining: 57.2s
597:
                                 total: 1m 24s
                                                   remaining: 57.1s
        learn: 0.1999081
        learn: 0.1997995
                                 total: 1m 25s
598:
                                                   remaining: 56.9s
                                                   remaining: 56.8s
599:
        learn: 0.1997048
                                 total: 1m 25s
        learn: 0.1996271
                                 total: 1m 25s
600:
                                                   remaining: 56.6s
601:
        learn: 0.1995354
                                 total: 1m 25s
                                                   remaining: 56.5s
602:
        learn: 0.1994463
                                 total: 1m 25s
                                                   remaining: 56.3s
603:
        learn: 0.1993420
                                 total: 1m 25s
                                                   remaining: 56.2s
                                 total: 1m 25s
604:
        learn: 0.1992562
                                                   remaining: 56.1s
605:
        learn: 0.1991625
                                 total: 1m 26s
                                                   remaining: 55.9s
606:
        learn: 0.1990636
                                 total: 1m 26s
                                                   remaining: 55.8s
                                 total: 1m 26s
607:
        learn: 0.1989728
                                                   remaining: 55.6s
```

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608:
                                 total: 1m 26s
                                                   remaining: 55.5s
        learn: 0.1988888
609:
        learn: 0.1988060
                                 total: 1m 26s
                                                   remaining: 55.3s
                                                   remaining: 55.2s
610:
                                 total: 1m 26s
        learn: 0.1987068
                                 total: 1m 26s
611:
        learn: 0.1986260
                                                   remaining: 55.1s
612:
        learn: 0.1985328
                                 total: 1m 27s
                                                   remaining: 54.9s
613:
        learn: 0.1984409
                                 total: 1m 27s
                                                   remaining: 54.8s
                                 total: 1m 27s
                                                   remaining: 54.7s
614:
        learn: 0.1983458
                                 total: 1m 27s
615:
        learn: 0.1982607
                                                   remaining: 54.5s
616:
        learn: 0.1981858
                                 total: 1m 27s
                                                   remaining: 54.4s
617:
        learn: 0.1981002
                                 total: 1m 27s
                                                   remaining: 54.2s
618:
        learn: 0.1980102
                                 total: 1m 27s
                                                   remaining: 54.1s
                                 total: 1m 27s
619:
        learn: 0.1979307
                                                   remaining: 53.9s
620:
        learn: 0.1978435
                                 total: 1m 28s
                                                   remaining: 53.8s
                                 total: 1m 28s
621:
        learn: 0.1977613
                                                   remaining: 53.6s
622:
                                 total: 1m 28s
        learn: 0.1976821
                                                   remaining: 53.5s
623:
        learn: 0.1975985
                                 total: 1m 28s
                                                   remaining: 53.4s
                                 total: 1m 28s
624:
        learn: 0.1974986
                                                   remaining: 53.2s
                                                   remaining: 53.1s
625:
        learn: 0.1974066
                                 total: 1m 28s
                                 total: 1m 28s
626:
        learn: 0.1973226
                                                   remaining: 52.9s
627:
        learn: 0.1972319
                                 total: 1m 29s
                                                   remaining: 52.8s
628:
        learn: 0.1971566
                                 total: 1m 29s
                                                   remaining: 52.7s
629:
        learn: 0.1970863
                                 total: 1m 29s
                                                   remaining: 52.5s
630:
        learn: 0.1970029
                                 total: 1m 29s
                                                   remaining: 52.4s
631:
        learn: 0.1969125
                                 total: 1m 29s
                                                   remaining: 52.3s
632:
                                 total: 1m 29s
        learn: 0.1968262
                                                   remaining: 52.1s
                                 total: 1m 30s
633:
        learn: 0.1967343
                                                   remaining: 52s
634:
        learn: 0.1966446
                                 total: 1m 30s
                                                   remaining: 51.9s
                                 total: 1m 30s
635:
        learn: 0.1965648
                                                   remaining: 51.8s
636:
        learn: 0.1964779
                                 total: 1m 30s
                                                   remaining: 51.6s
                                                   remaining: 51.5s
637:
        learn: 0.1963886
                                 total: 1m 30s
638:
        learn: 0.1962941
                                 total: 1m 30s
                                                   remaining: 51.3s
639:
        learn: 0.1962007
                                 total: 1m 31s
                                                   remaining: 51.2s
640:
        learn: 0.1961125
                                 total: 1m 31s
                                                   remaining: 51.1s
641:
        learn: 0.1960284
                                 total: 1m 31s
                                                   remaining: 50.9s
642:
        learn: 0.1959442
                                 total: 1m 31s
                                                   remaining: 50.8s
643:
                                 total: 1m 31s
        learn: 0.1958814
                                                   remaining: 50.6s
                                 total: 1m 31s
644:
        learn: 0.1957948
                                                   remaining: 50.5s
645:
                                 total: 1m 31s
        learn: 0.1957023
                                                   remaining: 50.3s
                                 total: 1m 32s
                                                   remaining: 50.2s
646:
        learn: 0.1956134
647:
                                 total: 1m 32s
        learn: 0.1955297
                                                   remaining: 50.1s
                                 total: 1m 32s
648:
        learn: 0.1954526
                                                   remaining: 49.9s
649:
        learn: 0.1953663
                                 total: 1m 32s
                                                   remaining: 49.8s
650:
        learn: 0.1952839
                                 total: 1m 32s
                                                   remaining: 49.6s
                                                   remaining: 49.5s
651:
        learn: 0.1952046
                                 total: 1m 32s
                                 total: 1m 32s
652:
        learn: 0.1951156
                                                   remaining: 49.3s
653:
        learn: 0.1950314
                                 total: 1m 32s
                                                   remaining: 49.2s
654:
        learn: 0.1949556
                                 total: 1m 33s
                                                   remaining: 49s
655:
        learn: 0.1948835
                                 total: 1m 33s
                                                   remaining: 48.9s
                                 total: 1m 33s
                                                   remaining: 48.8s
656:
        learn: 0.1948020
        learn: 0.1947299
                                 total: 1m 33s
657:
                                                   remaining: 48.6s
                                                   remaining: 48.5s
658:
        learn: 0.1946516
                                 total: 1m 33s
659:
                                 total: 1m 33s
        learn: 0.1945711
                                                   remaining: 48.3s
660:
        learn: 0.1944856
                                 total: 1m 33s
                                                   remaining: 48.2s
661:
        learn: 0.1944028
                                 total: 1m 34s
                                                   remaining: 48.1s
662:
        learn: 0.1943217
                                 total: 1m 34s
                                                   remaining: 47.9s
                                 total: 1m 34s
663:
        learn: 0.1942563
                                                   remaining: 47.8s
664:
        learn: 0.1941802
                                 total: 1m 34s
                                                   remaining: 47.6s
665:
        learn: 0.1941047
                                 total: 1m 34s
                                                   remaining: 47.5s
        learn: 0.1940330
                                 total: 1m 34s
                                                   remaining: 47.3s
666:
```

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667:
        learn: 0.1939529
                                  total: 1m 34s
                                                   remaining: 47.2s
668:
        learn: 0.1938587
                                  total: 1m 35s
                                                   remaining: 47s
669:
                                  total: 1m 35s
                                                   remaining: 46.9s
        learn: 0.1937536
                                  total: 1m 35s
670:
        learn: 0.1936657
                                                   remaining: 46.7s
671:
        learn: 0.1935933
                                  total: 1m 35s
                                                   remaining: 46.6s
672:
        learn: 0.1934973
                                  total: 1m 35s
                                                   remaining: 46.5s
                                                   remaining: 46.3s
673:
        learn: 0.1934274
                                  total: 1m 35s
674:
                                  total: 1m 35s
        learn: 0.1933382
                                                   remaining: 46.2s
675:
        learn: 0.1932657
                                  total: 1m 36s
                                                   remaining: 46s
676:
        learn: 0.1931864
                                  total: 1m 36s
                                                   remaining: 45.9s
677:
        learn: 0.1931076
                                  total: 1m 36s
                                                   remaining: 45.8s
                                  total: 1m 36s
678:
        learn: 0.1930363
                                                   remaining: 45.6s
679:
        learn: 0.1929637
                                  total: 1m 36s
                                                   remaining: 45.5s
                                  total: 1m 36s
680:
        learn: 0.1928946
                                                   remaining: 45.3s
                                  total: 1m 36s
681:
        learn: 0.1927999
                                                   remaining: 45.2s
                                  total: 1m 37s
682:
        learn: 0.1927144
                                                   remaining: 45s
                                  total: 1m 37s
683:
        learn: 0.1926305
                                                   remaining: 44.9s
                                                   remaining: 44.8s
684:
        learn: 0.1925544
                                  total: 1m 37s
685:
                                  total: 1m 37s
        learn: 0.1924680
                                                   remaining: 44.6s
686:
        learn: 0.1924032
                                  total: 1m 37s
                                                   remaining: 44.5s
687:
        learn: 0.1923213
                                  total: 1m 37s
                                                   remaining: 44.3s
688:
        learn: 0.1922342
                                  total: 1m 37s
                                                   remaining: 44.2s
689:
        learn: 0.1921464
                                  total: 1m 38s
                                                   remaining: 44.1s
690:
        learn: 0.1920554
                                  total: 1m 38s
                                                   remaining: 43.9s
691:
                                  total: 1m 38s
        learn: 0.1919885
                                                   remaining: 43.8s
                                  total: 1m 38s
692:
        learn: 0.1919119
                                                   remaining: 43.6s
693:
        learn: 0.1918241
                                  total: 1m 38s
                                                   remaining: 43.5s
694:
                                  total: 1m 38s
        learn: 0.1917494
                                                   remaining: 43.4s
695:
        learn: 0.1916615
                                  total: 1m 38s
                                                   remaining: 43.2s
696:
        learn: 0.1915862
                                  total: 1m 39s
                                                   remaining: 43.1s
697:
        learn: 0.1915108
                                  total: 1m 39s
                                                   remaining: 42.9s
698:
        learn: 0.1914239
                                  total: 1m 39s
                                                   remaining: 42.8s
                                  total: 1m 39s
699:
        learn: 0.1913435
                                                   remaining: 42.6s
700:
        learn: 0.1912611
                                  total: 1m 39s
                                                   remaining: 42.5s
701:
        learn: 0.1911740
                                  total: 1m 39s
                                                   remaining: 42.4s
702:
                                  total: 1m 39s
        learn: 0.1910941
                                                   remaining: 42.2s
703:
                                  total: 1m 40s
        learn: 0.1910323
                                                   remaining: 42.1s
704:
                                  total: 1m 40s
        learn: 0.1909443
                                                   remaining: 41.9s
705:
                                  total: 1m 40s
                                                   remaining: 41.8s
        learn: 0.1908637
706:
                                  total: 1m 40s
        learn: 0.1907880
                                                   remaining: 41.6s
707:
        learn: 0.1906904
                                  total: 1m 40s
                                                   remaining: 41.5s
708:
        learn: 0.1905980
                                  total: 1m 40s
                                                   remaining: 41.4s
709:
        learn: 0.1905299
                                  total: 1m 40s
                                                   remaining: 41.2s
                                                   remaining: 41.1s
710:
        learn: 0.1904544
                                  total: 1m 41s
711:
                                  total: 1m 41s
        learn: 0.1903686
                                                   remaining: 40.9s
712:
        learn: 0.1903072
                                  total: 1m 41s
                                                   remaining: 40.8s
713:
        learn: 0.1902239
                                  total: 1m 41s
                                                   remaining: 40.7s
                                  total: 1m 41s
714:
        learn: 0.1901492
                                                   remaining: 40.5s
                                                   remaining: 40.4s
715:
                                  total: 1m 41s
        learn: 0.1900655
716:
        learn: 0.1899893
                                  total: 1m 41s
                                                   remaining: 40.2s
                                  total: 1m 42s
                                                   remaining: 40.1s
717:
        learn: 0.1899022
718:
        learn: 0.1898249
                                  total: 1m 42s
                                                   remaining: 39.9s
719:
        learn: 0.1897466
                                  total: 1m 42s
                                                   remaining: 39.8s
720:
        learn: 0.1896745
                                  total: 1m 42s
                                                   remaining: 39.7s
721:
        learn: 0.1895896
                                  total: 1m 42s
                                                   remaining: 39.5s
                                                   remaining: 39.4s
722:
        learn: 0.1895038
                                  total: 1m 42s
723:
        learn: 0.1894363
                                  total: 1m 42s
                                                   remaining: 39.2s
724:
        learn: 0.1893472
                                  total: 1m 43s
                                                   remaining: 39.1s
725:
        learn: 0.1892714
                                  total: 1m 43s
                                                   remaining: 39s
```

726:	learn: 0.1891941	total: 1m 43s	remaining:	38.8s
727:	learn: 0.1891184	total: 1m 43s	remaining:	38.7s
728:	learn: 0.1890566	total: 1m 43s	remaining:	38.5s
729:	learn: 0.1889957	total: 1m 43s	remaining:	38.4s
730:	learn: 0.1889196	total: 1m 43s	remaining:	38.2s
731:	learn: 0.1888423	total: 1m 44s	remaining:	38.1s
732:	learn: 0.1887884	total: 1m 44s	remaining:	
733:	learn: 0.1887035	total: 1m 44s	remaining:	
734:	learn: 0.1886162	total: 1m 44s	remaining:	
735:	learn: 0.1885312	total: 1m 44s	remaining:	
736:	learn: 0.1884490	total: 1m 44s	remaining:	37.4s
737:	learn: 0.1883630	total: 1m 44s	remaining:	37.1s
738:	learn: 0.1882766	total: 1m 45s	remaining:	
739:	learn: 0.1881832	total: 1m 45s	remaining:	
740:	learn: 0.1881019	total: 1m 45s	remaining:	
741:	learn: 0.1880296	total: 1m 45s	remaining:	36.7s
742:	learn: 0.1879590	total: 1m 45s	remaining:	36.6s
743:	learn: 0.1878791	total: 1m 46s	remaining:	
743. 744:	learn: 0.1878083	total: 1m 46s	remaining:	
744. 745:	learn: 0.1877192	total: 1m 46s	remaining:	
745. 746:	learn: 0.1876431	total: 1m 46s	remaining:	36.1s
740. 747:	learn: 0.1875650	total: 1m 46s	remaining.	35.9s
747. 748:	learn: 0.1874834	total: 1m 46s	remaining.	
748. 749:	learn: 0.1874161	total: 1m 46s	remaining.	
749. 750:	learn: 0.1873358	total: 1m 47s	_	35.7s
750. 751:			remaining:	35.5s
	learn: 0.1872565	total: 1m 47s total: 1m 47s	remaining:	
752:	learn: 0.1871751		remaining:	35.2s
753:	learn: 0.1871113	total: 1m 47s	remaining:	
754:	learn: 0.1870351	total: 1m 47s	remaining:	
755:	learn: 0.1869539	total: 1m 47s	remaining:	
756:	learn: 0.1868708	total: 1m 48s	remaining:	
757:	learn: 0.1868040	total: 1m 48s	remaining:	
758:	learn: 0.1867306	total: 1m 48s	remaining:	
759:	learn: 0.1866584	total: 1m 48s	remaining:	
760:	learn: 0.1865986	total: 1m 48s	remaining:	
761:	learn: 0.1865222	total: 1m 48s	remaining:	34s
762:	learn: 0.1864450	total: 1m 48s	remaining:	
763:	learn: 0.1863781	total: 1m 48s	remaining:	
764:	learn: 0.1863135	total: 1m 49s	remaining:	
765:	learn: 0.1862395	total: 1m 49s	remaining:	
766:	learn: 0.1861531	total: 1m 49s	remaining:	33.2s
767:	learn: 0.1860686	total: 1m 49s	remaining:	
768:	learn: 0.1860032	total: 1m 49s	remaining:	
769:	learn: 0.1859223	total: 1m 49s	remaining:	
770:	learn: 0.1858469	total: 1m 49s	remaining:	
771:	learn: 0.1857632	total: 1m 50s	remaining:	
772:	learn: 0.1856900	total: 1m 50s	remaining:	
773:	learn: 0.1856147	total: 1m 50s	remaining:	
774:	learn: 0.1855518	total: 1m 50s	remaining:	
775:	learn: 0.1854788	total: 1m 50s	remaining:	
776:	learn: 0.1854135	total: 1m 50s	remaining:	31.8s
777:	learn: 0.1853469	total: 1m 50s	remaining:	
778:	learn: 0.1852771	total: 1m 51s	remaining:	
779:	learn: 0.1852013	total: 1m 51s	remaining:	
780:	learn: 0.1851373	total: 1m 51s	remaining:	
781:	learn: 0.1850630	total: 1m 51s	remaining:	31.1s
782:	learn: 0.1849928	total: 1m 51s	remaining:	
783:	learn: 0.1849170	total: 1m 51s	remaining:	
784:	learn: 0.1848301	total: 1m 51s	remaining:	30.7s

785:	learn: 0.1847626	total: 1m 52s	remaining:	30.5s
786:	learn: 0.1846810	total: 1m 52s	remaining:	30.4s
787:	learn: 0.1846104	total: 1m 52s	remaining:	30.2s
788:	learn: 0.1845144	total: 1m 52s	remaining:	
789:	learn: 0.1844491	total: 1m 52s	remaining:	30 . 13
			•	
790:	learn: 0.1843911	total: 1m 52s	remaining:	
791:	learn: 0.1843288	total: 1m 52s	remaining:	
792:	learn: 0.1842673	total: 1m 53s	remaining:	29.5s
793:	learn: 0.1841906	total: 1m 53s	remaining:	29.4s
794:	learn: 0.1841188	total: 1m 53s	remaining:	
795:	learn: 0.1840386	total: 1m 53s	remaining:	29.1s
796:	learn: 0.1839733	total: 1m 53s	•	28.9s
			remaining:	
797:	learn: 0.1839020	total: 1m 53s	remaining:	
798:	learn: 0.1838301	total: 1m 53s	remaining:	
799:	learn: 0.1837579	total: 1m 54s	remaining:	28.5s
800:	learn: 0.1836911	total: 1m 54s	remaining:	28.4s
801:	learn: 0.1836155	total: 1m 54s	remaining:	28.2s
802:	learn: 0.1835523	total: 1m 54s	remaining:	
803:	learn: 0.1834870	total: 1m 54s	remaining:	
			•	
804:	learn: 0.1834205	total: 1m 54s	remaining:	
805:	learn: 0.1833475	total: 1m 54s	remaining:	
806:	learn: 0.1832862	total: 1m 55s	remaining:	27.5s
807:	learn: 0.1832139	total: 1m 55s	remaining:	27.4s
808:	learn: 0.1831467	total: 1m 55s	remaining:	27.2s
809:	learn: 0.1830713	total: 1m 55s	remaining:	27.1s
810:	learn: 0.1830121	total: 1m 55s	remaining:	27s
811:	learn: 0.1829339	total: 1m 55s	remaining:	
812:	learn: 0.1828570	total: 1m 55s	remaining:	
			_	
813:	learn: 0.1827717		remaining:	
814:	learn: 0.1826914	total: 1m 56s	remaining:	
815:	learn: 0.1825978	total: 1m 56s	remaining:	
816:	learn: 0.1825223	total: 1m 56s	remaining:	26.1s
817:	learn: 0.1824583	total: 1m 56s	remaining:	26s
818:	learn: 0.1824038	total: 1m 56s	remaining:	25.8s
819:	learn: 0.1823392	total: 1m 56s	remaining:	25.7s
820:	learn: 0.1822677	total: 1m 57s	remaining:	25.5s
821:	learn: 0.1821917	total: 1m 57s	remaining:	
822:	learn: 0.1821157	total: 1m 57s	remaining:	
823:	learn: 0.1820545	total: 1m 57s	•	
			remaining:	
824:	learn: 0.1819908	total: 1m 57s	remaining:	25s
825:	learn: 0.1819203	total: 1m 57s	remaining:	
826:	learn: 0.1818465	total: 1m 57s	remaining:	
827:	learn: 0.1817726	total: 1m 58s	remaining:	24.5s
828:	learn: 0.1816939	total: 1m 58s	remaining:	24.4s
829:	learn: 0.1816227	total: 1m 58s	remaining:	24.3s
830:	learn: 0.1815498	total: 1m 58s	remaining:	
831:	learn: 0.1814796	total: 1m 58s	remaining:	
832:	learn: 0.1814175	total: 1m 58s	remaining:	
			_	
833:	learn: 0.1813602	total: 1m 58s	remaining:	
834:	learn: 0.1812794	total: 1m 59s	remaining:	
835:	learn: 0.1812119	total: 1m 59s	remaining:	
836:	learn: 0.1811431	total: 1m 59s	remaining:	23.3s
837:	learn: 0.1810744	total: 1m 59s	remaining:	23.1s
838:	learn: 0.1810016	total: 1m 59s	remaining:	23s
839:	learn: 0.1809175	total: 1m 59s	remaining:	
840:	learn: 0.1808411	total: 2m	remaining:	
841:	learn: 0.1807762	total: 2m	remaining:	
842:	learn: 0.1807175	total: 2m	remaining:	
843:	learn: 0.1806506	total: 2m	remaining:	44.35

844: learn: 0.1805963 total: 2m remaining: 22.1s 846: learn: 0.1804709 total: 2m remaining: 21.8s 847: learn: 0.1804709 total: 2m remaining: 21.4s 848: learn: 0.1802639 total: 2m remaining: 21.4s 859: learn: 0.1801406 total: 2m remaining: 21.4s 851: learn: 0.1800667 total: 2m remaining: 21.3s 851: learn: 0.1800667 total: 2m remaining: 21.3s 851: learn: 0.1800667 total: 2m remaining: 20.9s 854: learn: 0.1799386 total: 2m remaining: 20.9s 855: learn: 0.1799386 total: 2m remaining: 20.4s 857: learn: 0.1797280 total: 2m remaining: 20.4s 857: learn: 0.1797566 total: 2m remaining: 20.4s 858: learn: 0.179566 total: 2m remaining: 19.9s 860: learn: 0.1794450 total: 2m remaining: 19.9s 861: learn: 0.1794450 total: 2m remaining: 19.9s <	0.4.4	1 0 1005063			22.4
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885:learn:0.1779601total:2m 6sremaining:16.3s886:learn:0.1778987total:2m 6sremaining:16.1s887:learn:0.1778424total:2m 6sremaining:16s888:learn:0.177720total:2m 7sremaining:15.9s889:learn:0.1777118total:2m 7sremaining:15.7s890:learn:0.1776494total:2m 7sremaining:15.6s891:learn:0.1775231total:2m 7sremaining:15.3s893:learn:0.1774659total:2m 7sremaining:15.1s894:learn:0.1774081total:2m 7sremaining:15.s895:learn:0.1773355total:2m 8sremaining:14.9s896:learn:0.1772689total:2m 8sremaining:14.7s897:learn:0.1771440total:2m 8sremaining:14.4s899:learn:0.1770762total:2m 8sremaining:14.3s900:learn:0.1770082total:2m 8sremaining:14.1s901:learn:0.1769351total:2m 8sremaining:14s	883:	learn: 0.1780693	total: 2m 6s	remaining:	16.6s
886:learn:0.1778987total:2m 6sremaining:16.1s887:learn:0.1778424total:2m 6sremaining:16s888:learn:0.1777720total:2m 7sremaining:15.9s889:learn:0.1777118total:2m 7sremaining:15.7s890:learn:0.1775494total:2m 7sremaining:15.6s891:learn:0.1775231total:2m 7sremaining:15.3s893:learn:0.1774659total:2m 7sremaining:15.1s894:learn:0.1774081total:2m 7sremaining:15.1s895:learn:0.1772689total:2m 8sremaining:14.9s896:learn:0.1772128total:2m 8sremaining:14.6s898:learn:0.1771440total:2m 8sremaining:14.4s899:learn:0.177062total:2m 8sremaining:14.3s900:learn:0.1769351total:2m 8sremaining:14.1s901:learn:0.1769351total:2m 8sremaining:14s	884:	learn: 0.1780146	total: 2m 6s	remaining:	16.4s
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888: learn: 0.1777720 total: 2m 7s remaining: 15.9s 889: learn: 0.1777118 total: 2m 7s remaining: 15.7s 890: learn: 0.1776494 total: 2m 7s remaining: 15.6s 891: learn: 0.1775868 total: 2m 7s remaining: 15.4s 892: learn: 0.1775231 total: 2m 7s remaining: 15.3s 893: learn: 0.1774659 total: 2m 7s remaining: 15.1s 894: learn: 0.1774081 total: 2m 7s remaining: 15s 895: learn: 0.1774081 total: 2m 8s remaining: 14.9s 896: learn: 0.1772689 total: 2m 8s remaining: 14.7s 897: learn: 0.1772128 total: 2m 8s remaining: 14.6s 898: learn: 0.1771440 total: 2m 8s remaining: 14.4s 899: learn: 0.1770762 total: 2m 8s remaining: 14.3s 900: learn: 0.1770082 total: 2m 8s remaining: 14.1s 901: learn: 0.1769351 total: 2m 8s remaining: 14.5s	886:	learn: 0.1778987	total: 2m 6s	remaining:	16.1s
888:learn:0.1777720total:2m 7sremaining:15.9s889:learn:0.1777118total:2m 7sremaining:15.7s890:learn:0.1776494total:2m 7sremaining:15.6s891:learn:0.1775868total:2m 7sremaining:15.4s892:learn:0.1775231total:2m 7sremaining:15.3s893:learn:0.1774659total:2m 7sremaining:15.1s894:learn:0.1774081total:2m 7sremaining:15.s895:learn:0.1773355total:2m 8sremaining:14.9s896:learn:0.1772689total:2m 8sremaining:14.7s897:learn:0.1772128total:2m 8sremaining:14.6s898:learn:0.1770762total:2m 8sremaining:14.3s900:learn:0.1770082total:2m 8sremaining:14.1s901:learn:0.1769351total:2m 8sremaining:14.s	887:	learn: 0.1778424	total: 2m 6s	remaining:	16s
889:learn:0.1777118total:2m 7sremaining:15.7s890:learn:0.1776494total:2m 7sremaining:15.6s891:learn:0.1775868total:2m 7sremaining:15.4s892:learn:0.1775231total:2m 7sremaining:15.3s893:learn:0.1774659total:2m 7sremaining:15.1s894:learn:0.1774081total:2m 7sremaining:15.s895:learn:0.1773355total:2m 8sremaining:14.9s896:learn:0.1772689total:2m 8sremaining:14.7s897:learn:0.1772128total:2m 8sremaining:14.6s898:learn:0.1771440total:2m 8sremaining:14.4s899:learn:0.1770762total:2m 8sremaining:14.3s900:learn:0.1769351total:2m 8sremaining:14.1s901:learn:0.1769351total:2m 8sremaining:14s	888:	learn: 0.1777720	total: 2m 7s	_	
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891: learn: 0.1775868 total: 2m 7s remaining: 15.4s 892: learn: 0.1775231 total: 2m 7s remaining: 15.3s 893: learn: 0.1774659 total: 2m 7s remaining: 15.1s 894: learn: 0.1774081 total: 2m 7s remaining: 15s 895: learn: 0.1773355 total: 2m 8s remaining: 14.9s 896: learn: 0.1772689 total: 2m 8s remaining: 14.7s 897: learn: 0.1772128 total: 2m 8s remaining: 14.6s 898: learn: 0.1771440 total: 2m 8s remaining: 14.4s 899: learn: 0.1770762 total: 2m 8s remaining: 14.3s 900: learn: 0.1770082 total: 2m 8s remaining: 14.1s 901: learn: 0.1769351 total: 2m 8s remaining: 14s				•	
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894: learn: 0.1774081 total: 2m 7s remaining: 15s 895: learn: 0.1773355 total: 2m 8s remaining: 14.9s 896: learn: 0.1772689 total: 2m 8s remaining: 14.7s 897: learn: 0.1772128 total: 2m 8s remaining: 14.6s 898: learn: 0.1771440 total: 2m 8s remaining: 14.4s 899: learn: 0.1770762 total: 2m 8s remaining: 14.3s 900: learn: 0.1770082 total: 2m 8s remaining: 14.1s 901: learn: 0.1769351 total: 2m 8s remaining: 14s				_	
895: learn: 0.1773355 total: 2m 8s remaining: 14.9s 896: learn: 0.1772689 total: 2m 8s remaining: 14.7s 897: learn: 0.1772128 total: 2m 8s remaining: 14.6s 898: learn: 0.1771440 total: 2m 8s remaining: 14.4s 899: learn: 0.1770762 total: 2m 8s remaining: 14.3s 900: learn: 0.1770082 total: 2m 8s remaining: 14.1s 901: learn: 0.1769351 total: 2m 8s remaining: 14s				•	
896: learn: 0.1772689 total: 2m 8s remaining: 14.7s 897: learn: 0.1772128 total: 2m 8s remaining: 14.6s 898: learn: 0.1771440 total: 2m 8s remaining: 14.4s 899: learn: 0.1770762 total: 2m 8s remaining: 14.3s 900: learn: 0.1770082 total: 2m 8s remaining: 14.1s 901: learn: 0.1769351 total: 2m 8s remaining: 14s				_	
897: learn: 0.1772128 total: 2m 8s remaining: 14.6s 898: learn: 0.1771440 total: 2m 8s remaining: 14.4s 899: learn: 0.1770762 total: 2m 8s remaining: 14.3s 900: learn: 0.1770082 total: 2m 8s remaining: 14.1s 901: learn: 0.1769351 total: 2m 8s remaining: 14s				•	
898: learn: 0.1771440 total: 2m 8s remaining: 14.4s 899: learn: 0.1770762 total: 2m 8s remaining: 14.3s 900: learn: 0.1770082 total: 2m 8s remaining: 14.1s 901: learn: 0.1769351 total: 2m 8s remaining: 14s				•	
899: learn: 0.1770762 total: 2m 8s remaining: 14.3s 900: learn: 0.1770082 total: 2m 8s remaining: 14.1s 901: learn: 0.1769351 total: 2m 8s remaining: 14s				_	
900: learn: 0.1770082 total: 2m 8s remaining: 14.1s 901: learn: 0.1769351 total: 2m 8s remaining: 14s				_	
901: learn: 0.1769351 total: 2m 8s remaining: 14s				•	
•				_	
902: learn: 0.1768763 total: 2m 9s remaining: 13.9s	901:		total: 2m 8s	remaining:	14s
	902:	learn: 0.1768763	total: 2m 9s	remaining:	13.9s

```
903:
        learn: 0.1768167
                                 total: 2m 9s
                                                   remaining: 13.7s
904:
        learn: 0.1767546
                                 total: 2m 9s
                                                   remaining: 13.6s
905:
                                 total: 2m 9s
                                                   remaining: 13.4s
        learn: 0.1766943
                                 total: 2m 9s
906:
        learn: 0.1766288
                                                   remaining: 13.3s
907:
        learn: 0.1765486
                                 total: 2m 9s
                                                   remaining: 13.1s
908:
        learn: 0.1764962
                                 total: 2m 9s
                                                   remaining: 13s
                                                   remaining: 12.9s
909:
        learn: 0.1764279
                                 total: 2m 10s
                                 total: 2m 10s
910:
        learn: 0.1763583
                                                   remaining: 12.7s
911:
        learn: 0.1762878
                                 total: 2m 10s
                                                   remaining: 12.6s
912:
        learn: 0.1762312
                                 total: 2m 10s
                                                   remaining: 12.4s
913:
        learn: 0.1761651
                                 total: 2m 10s
                                                   remaining: 12.3s
                                 total: 2m 10s
914:
        learn: 0.1760964
                                                   remaining: 12.1s
915:
        learn: 0.1760321
                                 total: 2m 10s
                                                   remaining: 12s
                                 total: 2m 11s
916:
        learn: 0.1759695
                                                   remaining: 11.9s
917:
                                 total: 2m 11s
        learn: 0.1759017
                                                   remaining: 11.7s
918:
        learn: 0.1758365
                                 total: 2m 11s
                                                   remaining: 11.6s
919:
        learn: 0.1757637
                                 total: 2m 11s
                                                   remaining: 11.4s
                                                   remaining: 11.3s
920:
        learn: 0.1756880
                                 total: 2m 11s
                                 total: 2m 11s
921:
        learn: 0.1756278
                                                   remaining: 11.1s
922:
        learn: 0.1755676
                                 total: 2m 11s
                                                   remaining: 11s
923:
        learn: 0.1755070
                                 total: 2m 12s
                                                   remaining: 10.9s
924:
        learn: 0.1754454
                                 total: 2m 12s
                                                   remaining: 10.7s
925:
        learn: 0.1753816
                                 total: 2m 12s
                                                   remaining: 10.6s
926:
        learn: 0.1753307
                                 total: 2m 12s
                                                   remaining: 10.4s
927:
                                 total: 2m 12s
        learn: 0.1752636
                                                   remaining: 10.3s
928:
                                 total: 2m 12s
        learn: 0.1751959
                                                   remaining: 10.1s
929:
        learn: 0.1751519
                                 total: 2m 12s
                                                   remaining: 10s
930:
                                 total: 2m 13s
        learn: 0.1750846
                                                   remaining: 9.86s
931:
        learn: 0.1750185
                                 total: 2m 13s
                                                   remaining: 9.72s
                                                   remaining: 9.57s
932:
        learn: 0.1749517
                                 total: 2m 13s
933:
        learn: 0.1748838
                                 total: 2m 13s
                                                   remaining: 9.43s
934:
        learn: 0.1748055
                                 total: 2m 13s
                                                   remaining: 9.29s
935:
        learn: 0.1747463
                                 total: 2m 13s
                                                   remaining: 9.14s
936:
        learn: 0.1746949
                                 total: 2m 13s
                                                   remaining: 9s
                                 total: 2m 14s
937:
        learn: 0.1746356
                                                   remaining: 8.86s
938:
                                 total: 2m 14s
        learn: 0.1745841
                                                   remaining: 8.71s
                                 total: 2m 14s
939:
        learn: 0.1745304
                                                   remaining: 8.57s
940:
                                 total: 2m 14s
        learn: 0.1744683
                                                   remaining: 8.43s
                                 total: 2m 14s
                                                   remaining: 8.29s
941:
        learn: 0.1744113
942:
                                 total: 2m 14s
        learn: 0.1743546
                                                   remaining: 8.14s
943:
        learn: 0.1743017
                                 total: 2m 14s
                                                   remaining: 8s
944:
        learn: 0.1742521
                                 total: 2m 15s
                                                   remaining: 7.86s
945:
        learn: 0.1741826
                                 total: 2m 15s
                                                   remaining: 7.71s
                                                   remaining: 7.57s
946:
        learn: 0.1741153
                                 total: 2m 15s
        learn: 0.1740389
947:
                                 total: 2m 15s
                                                   remaining: 7.43s
948:
        learn: 0.1739899
                                 total: 2m 15s
                                                   remaining: 7.29s
949:
        learn: 0.1739370
                                 total: 2m 15s
                                                   remaining: 7.14s
950:
        learn: 0.1738772
                                 total: 2m 15s
                                                   remaining: 7s
951:
                                 total: 2m 15s
        learn: 0.1738252
                                                   remaining: 6.86s
952:
        learn: 0.1737615
                                 total: 2m 16s
                                                   remaining: 6.71s
                                                   remaining: 6.57s
953:
        learn: 0.1736996
                                 total: 2m 16s
954:
        learn: 0.1736427
                                 total: 2m 16s
                                                   remaining: 6.43s
955:
        learn: 0.1735850
                                 total: 2m 16s
                                                   remaining: 6.28s
956:
        learn: 0.1735099
                                 total: 2m 16s
                                                   remaining: 6.14s
957:
        learn: 0.1734534
                                 total: 2m 16s
                                                   remaining: 6s
                                 total: 2m 16s
958:
        learn: 0.1733888
                                                   remaining: 5.86s
959:
        learn: 0.1733234
                                 total: 2m 17s
                                                   remaining: 5.71s
960:
        learn: 0.1732706
                                 total: 2m 17s
                                                   remaining: 5.57s
                                 total: 2m 17s
961:
        learn: 0.1732003
                                                   remaining: 5.43s
```

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962:
        learn: 0.1731464
                                 total: 2m 17s
                                                  remaining: 5.29s
963:
        learn: 0.1730872
                                 total: 2m 17s
                                                  remaining: 5.15s
964:
                                 total: 2m 18s
                                                  remaining: 5.01s
        learn: 0.1730224
                                 total: 2m 18s
965:
        learn: 0.1729725
                                                  remaining: 4.86s
966:
        learn: 0.1729120
                                 total: 2m 18s
                                                  remaining: 4.72s
967:
        learn: 0.1728496
                                 total: 2m 18s
                                                  remaining: 4.58s
                                 total: 2m 18s
                                                  remaining: 4.43s
968:
        learn: 0.1727730
                                 total: 2m 18s
969:
        learn: 0.1727090
                                                  remaining: 4.29s
970:
        learn: 0.1726449
                                 total: 2m 18s
                                                  remaining: 4.15s
971:
        learn: 0.1725804
                                 total: 2m 19s
                                                  remaining: 4.01s
972:
        learn: 0.1725242
                                 total: 2m 19s
                                                  remaining: 3.86s
                                 total: 2m 19s
973:
        learn: 0.1724557
                                                  remaining: 3.72s
974:
        learn: 0.1723829
                                 total: 2m 19s
                                                  remaining: 3.58s
975:
                                 total: 2m 19s
        learn: 0.1723206
                                                  remaining: 3.43s
                                 total: 2m 19s
976:
        learn: 0.1722651
                                                  remaining: 3.29s
977:
                                 total: 2m 19s
        learn: 0.1721877
                                                  remaining: 3.15s
978:
                                 total: 2m 20s
        learn: 0.1721276
                                                  remaining: 3s
                                                  remaining: 2.86s
979:
        learn: 0.1720720
                                 total: 2m 20s
980:
        learn: 0.1720150
                                 total: 2m 20s
                                                  remaining: 2.72s
981:
        learn: 0.1719492
                                 total: 2m 20s
                                                  remaining: 2.58s
982:
        learn: 0.1718763
                                 total: 2m 20s
                                                  remaining: 2.43s
                                                  remaining: 2.29s
983:
        learn: 0.1718121
                                 total: 2m 20s
984:
        learn: 0.1717495
                                 total: 2m 20s
                                                  remaining: 2.15s
                                 total: 2m 21s
985:
        learn: 0.1716889
                                                  remaining: 2s
                                 total: 2m 21s
986:
        learn: 0.1716300
                                                  remaining: 1.86s
                                 total: 2m 21s
987:
        learn: 0.1715603
                                                  remaining: 1.72s
988:
        learn: 0.1715092
                                 total: 2m 21s
                                                  remaining: 1.57s
989:
                                 total: 2m 21s
        learn: 0.1714524
                                                  remaining: 1.43s
990:
        learn: 0.1713859
                                 total: 2m 21s
                                                  remaining: 1.29s
991:
        learn: 0.1713347
                                 total: 2m 21s
                                                  remaining: 1.14s
992:
        learn: 0.1712775
                                 total: 2m 22s
                                                  remaining: 1s
993:
        learn: 0.1712248
                                 total: 2m 22s
                                                  remaining: 858ms
994:
        learn: 0.1711698
                                 total: 2m 22s
                                                  remaining: 715ms
995:
        learn: 0.1711154
                                 total: 2m 22s
                                                  remaining: 572ms
996:
        learn: 0.1710516
                                 total: 2m 22s
                                                  remaining: 429ms
997:
                                 total: 2m 22s
        learn: 0.1709866
                                                  remaining: 286ms
                                 total: 2m 22s
998:
        learn: 0.1709419
                                                  remaining: 143ms
999:
                                 total: 2m 23s
        learn: 0.1708871
                                                  remaining: Ous
      learning_rate=0.03, 12_leaf_reg=3, iterations=1000, depth=8, ctr_b
[CV]
order count=200, border count=50, score=0.8853137653752899, total= 2.5mi
n
[CV] learning_rate=0.03, 12_leaf_reg=3, iterations=1000, depth=8, ctr bo
rder_count=200, border_count=50
0:
        learn: 0.6667211
                                 total: 185ms
                                                  remaining: 3m 4s
                                 total: 376ms
                                                  remaining: 3m 7s
1:
        learn: 0.6423924
2:
        learn: 0.6193781
                                 total: 582ms
                                                  remaining: 3m 13s
3:
        learn: 0.5981854
                                 total: 805ms
                                                  remaining: 3m 20s
4:
        learn: 0.5782176
                                 total: 1s
                                                  remaining: 3m 20s
5:
        learn: 0.5599923
                                 total: 1.18s
                                                  remaining: 3m 15s
6:
                                                  remaining: 3m 7s
        learn: 0.5426592
                                 total: 1.32s
7:
        learn: 0.5268088
                                 total: 1.47s
                                                  remaining: 3m 2s
8:
        learn: 0.5118865
                                 total: 1.62s
                                                  remaining: 2m 58s
9:
        learn: 0.4983994
                                 total: 1.77s
                                                  remaining: 2m 55s
10:
        learn: 0.4854252
                                 total: 1.93s
                                                  remaining: 2m 53s
11:
        learn: 0.4734047
                                 total: 2.08s
                                                  remaining: 2m 51s
12:
        learn: 0.4625733
                                 total: 2.24s
                                                  remaining: 2m 49s
13:
        learn: 0.4521563
                                 total: 2.38s
                                                  remaining: 2m 47s
14:
        learn: 0.4425595
                                 total: 2.55s
                                                  remaining: 2m 47s
```

total: 2.7s

remaining: 2m 46s

15:

learn: 0.4333093

16:	learn: 0.4245989	total: 2.86s	remaining:	2m /15c
10. 17:	learn: 0.4169277	total: 2.803	remaining:	
17. 18:	learn: 0.4098066	total: 3.17s	remaining:	
19:	learn: 0.4029020	total: 3.32s	remaining:	
20:	learn: 0.3965064	total: 3.5s	remaining:	
20:	learn: 0.3905004	total: 3.66s	remaining:	
22:	learn: 0.3845957	total: 3.83s	remaining:	
	learn: 0.3793720			
23:		total: 3.98s	remaining:	
24:	learn: 0.3742843	total: 4.13s	remaining:	
25:	learn: 0.3696507	total: 4.29s	remaining:	
26:	learn: 0.3651552	total: 4.43s	remaining:	
27:	learn: 0.3611615	total: 4.59s	remaining:	
28:	learn: 0.3572396	total: 4.74s	remaining:	
29:	learn: 0.3536760	total: 4.88s	remaining:	
30:	learn: 0.3503140	total: 5.03s	remaining:	
31:	learn: 0.3467873	total: 5.17s	remaining:	
32:	learn: 0.3437323	total: 5.32s	remaining:	
33:	learn: 0.3407382	total: 5.46s	remaining:	
34:	learn: 0.3379681	total: 5.61s	remaining:	2m 34s
35:	learn: 0.3354757	total: 5.77s	remaining:	2m 34s
36:	learn: 0.3328732	total: 5.92s	remaining:	2m 34s
37:	learn: 0.3306661	total: 6.06s	remaining:	2m 33s
38:	learn: 0.3285252	total: 6.2s	remaining:	2m 32s
39:	learn: 0.3264190	total: 6.33s	remaining:	2m 31s
40:	learn: 0.3244032	total: 6.47s	remaining:	2m 31s
41:	learn: 0.3225342	total: 6.61s	remaining:	2m 30s
42:	learn: 0.3207324	total: 6.75s	remaining:	
43:	learn: 0.3190631	total: 6.9s	remaining:	
44:	learn: 0.3174414	total: 7.04s	remaining:	
45:	learn: 0.3158567	total: 7.17s	remaining:	
46:	learn: 0.3145421	total: 7.3s	remaining:	
47:	learn: 0.3131268	total: 7.44s	remaining:	
48:	learn: 0.3118021	total: 7.59s	remaining:	
49:	learn: 0.3105883	total: 7.72s	remaining:	
50:	learn: 0.3093536	total: 7.723	remaining:	
51:	learn: 0.3082609	total: 7:003	remaining:	
52:	learn: 0.3071105	total: 8.13s	remaining:	
53:	learn: 0.3059613	total: 8.27s	remaining:	
54:	learn: 0.3048933	total: 8.42s	remaining:	
55:	learn: 0.3039477	total: 8.56s	remaining:	
56:	learn: 0.3029913	total: 8.69s	remaining:	
57:	learn: 0.3020255	total: 8.83s	remaining:	
57. 58:	learn: 0.3011206	total: 8.97s	remaining:	
59:	learn: 0.3003225		_	
		total: 9.1s	remaining:	
60:	learn: 0.2994832	total: 9.25s	remaining:	
61:	learn: 0.2986959	total: 9.37s	remaining:	
62:	learn: 0.2978968	total: 9.52s	remaining:	
63:	learn: 0.2970797	total: 9.65s	remaining:	
64:	learn: 0.2963243	total: 9.79s	remaining:	
65:	learn: 0.2956538	total: 9.92s	remaining:	
66:	learn: 0.2949563	total: 10.1s	remaining:	
67:	learn: 0.2943047	total: 10.2s	remaining:	
68:	learn: 0.2936884	total: 10.3s	remaining:	
69:	learn: 0.2930522	total: 10.5s	remaining:	
70:	learn: 0.2924561	total: 10.6s	remaining:	
71:	learn: 0.2918343	total: 10.7s	remaining:	
72:	learn: 0.2912229	total: 10.9s	remaining:	
73:	learn: 0.2906711	total: 11s	remaining:	
74:	learn: 0.2900805	total: 11.2s	remaining:	2m 17s

75:	learn: 0.2895378	total: 11.3s	remaining: 2m 17s
75: 76:	learn: 0.2889894	total: 11.3s	remaining: 2m 17s
70: 77:	learn: 0.2884719	total: 11.45	remaining: 2m 16s
77. 78:	learn: 0.2879759	total: 11.7s	remaining: 2m 16s
70: 79:	learn: 0.2875302	total: 11.73	remaining: 2m 16s
80:	learn: 0.2870407	total: 12s	remaining: 2m 16s
81:	learn: 0.2865990	total: 12.1s	remaining: 2m 15s
82:	learn: 0.2861342	total: 12.3s	remaining: 2m 15s
83:	learn: 0.2856412	total: 12.4s	remaining: 2m 15s
84:	learn: 0.2851740	total: 12.43	remaining: 2m 15s
85:	learn: 0.2846933	total: 12.7s	remaining: 2m 15s
86:	learn: 0.2842280	total: 12.73	remaining: 2m 14s
87:	learn: 0.2837629	total: 13s	remaining: 2m 14s
88:	learn: 0.2833221	total: 13.1s	remaining: 2m 14s
89:	learn: 0.2829149	total: 13.3s	remaining: 2m 14s
90:	learn: 0.2824660	total: 13.4s	remaining: 2m 14s
91:	learn: 0.2820394	total: 13.5s	remaining: 2m 13s
92:	learn: 0.2816137	total: 13.7s	remaining: 2m 13s
92. 93:	learn: 0.2811839	total: 13.8s	remaining: 2m 13s
93. 94:	learn: 0.2807696	total: 14s	remaining: 2m 13s
94. 95:	learn: 0.2803753	total: 14.1s	•
95. 96:	learn: 0.2799917	total: 14.1s	•
96: 97:	learn: 0.2795865	total: 14.25	remaining: 2m 12s remaining: 2m 12s
97. 98:	learn: 0.2791979	total: 14.45	•
98: 99:			remaining: 2m 12s
	learn: 0.2788346	total: 14.6s	remaining: 2m 11s
100:	learn: 0.2784483	total: 14.8s total: 14.9s	remaining: 2m 11s
101:	learn: 0.2781064		remaining: 2m 11s
102:	learn: 0.2777511	total: 15.1s	remaining: 2m 11s
103:	learn: 0.2773793	total: 15.2s	remaining: 2m 11s
104:	learn: 0.2770192 learn: 0.2766859	total: 15.4s	remaining: 2m 10s
105:		total: 15.5s	remaining: 2m 10s
106:	learn: 0.2763212	total: 15.6s	remaining: 2m 10s
107:	learn: 0.2759773	total: 15.7s	remaining: 2m 10s
108:	learn: 0.2756118	total: 15.9s	remaining: 2m 9s
109:	learn: 0.2752636	total: 16s	remaining: 2m 9s
110:	learn: 0.2749093	total: 16.2s	remaining: 2m 9s
111:	learn: 0.2745693	total: 16.3s	remaining: 2m 9s
112:	learn: 0.2742319	total: 16.5s	remaining: 2m 9s
113:	learn: 0.2738794	total: 16.7s	remaining: 2m 9s
114:	learn: 0.2735649	total: 16.9s	remaining: 2m 9s
115:	learn: 0.2732293	total: 17s	remaining: 2m 9s
116:	learn: 0.2729138	total: 17.2s	remaining: 2m 9s
117:	learn: 0.2725864	total: 17.3s	remaining: 2m 9s
118:	learn: 0.2722473	total: 17.5s	remaining: 2m 9s
119:	learn: 0.2719264	total: 17.6s	remaining: 2m 9s
120:	learn: 0.2716313	total: 17.8s	remaining: 2m 9s
121:	learn: 0.2713361	total: 17.9s	remaining: 2m 8s
122:	learn: 0.2710275	total: 18s	remaining: 2m 8s
123:	learn: 0.2707229	total: 18.2s	remaining: 2m 8s
124:	learn: 0.2704266	total: 18.3s	remaining: 2m 8s
125:	learn: 0.2700901	total: 18.5s	remaining: 2m 8s
126:	learn: 0.2697823	total: 18.6s	remaining: 2m 7s
127:	learn: 0.2694983	total: 18.7s	remaining: 2m 7s
128:	learn: 0.2691828	total: 18.8s	remaining: 2m 7s
129:	learn: 0.2689315	total: 19s	remaining: 2m 6s
130:	learn: 0.2686237	total: 19.1s	remaining: 2m 6s
131:	learn: 0.2683093	total: 19.2s	remaining: 2m 6s
132:	learn: 0.2680072	total: 19.4s	remaining: 2m 6s
133:	learn: 0.2677192	total: 19.5s	remaining: 2m 6s

124.	100mm	total: 10 7c	nomoining. 1	·
134:	learn: 0.2674426	total: 19.7s	remaining: 2	
135:	learn: 0.2671557	total: 19.8s	remaining: 2	
136:	learn: 0.2668704	total: 19.9s	•	n 5s
137:	learn: 0.2665797	total: 20.1s	remaining: 2	
138:	learn: 0.2662969	total: 20.2s	•	n 5s
139:	learn: 0.2660242	total: 20.3s	_	n 5s
140:	learn: 0.2657438	total: 20.5s	•	n 4s
141:	learn: 0.2654744	total: 20.6s	•	n 4s
142:	learn: 0.2651815	total: 20.8s	•	n 4s
143:	learn: 0.2649142	total: 20.9s	•	n 4s
144:	learn: 0.2646393	total: 21s	_	n 4s
145:	learn: 0.2643643	total: 21.2s	_	n 3s
146:	learn: 0.2641006	total: 21.3s	_	n 3s
147:	learn: 0.2638301	total: 21.4s	remaining: 2	n 3s
148:	learn: 0.2635814	total: 21.6s	remaining: 2	n 3s
149:	learn: 0.2633120	total: 21.7s	remaining: 2	n 2s
150:	learn: 0.2630558	total: 21.8s	remaining: 2	n 2s
151:	learn: 0.2628025	total: 22s	remaining: 2	n 2s
152:	learn: 0.2625305	total: 22.1s	remaining: 2	n 2s
153:	learn: 0.2622619	total: 22.3s	remaining: 2	n 2s
154:	learn: 0.2620278	total: 22.4s	remaining: 2	n 2s
155:	learn: 0.2617665	total: 22.5s	remaining: 2	n 1s
156:	learn: 0.2615045	total: 22.7s	_	n 1s
157:	learn: 0.2612220	total: 22.8s	•	n 1s
158:	learn: 0.2609710	total: 22.9s	•	n 1s
159:	learn: 0.2607258	total: 23.1s	•	n 1s
160:	learn: 0.2604822	total: 23.2s	remaining: 2	
161:	learn: 0.2602536	total: 23.3s	remaining: 2	
162:	learn: 0.2600099	total: 23.5s	remaining: 2	
163:	learn: 0.2597480	total: 23.6s	remaining: 2	
164:	learn: 0.2595201	total: 23.7s	remaining: 2	
165:	learn: 0.2592812	total: 23.9s	•	n 59s
166:	learn: 0.2590331	total: 24s	•	n 59s
167:	learn: 0.2587898	total: 24.1s	•	n 59s
168:	learn: 0.2585658	total: 24.3s		n 59s
169:	learn: 0.2583079	total: 24.4s	_	n 59s
170:	learn: 0.2580677	total: 24.5s	_	n 58s
170: 171:	learn: 0.2578227	total: 24.7s	•	n 58s
171: 172:	learn: 0.2575846	total: 24.8s	•	n 58s
172: 173:	learn: 0.2573666	total: 24.9s	•	n 58s
173. 174:	learn: 0.2571259	total: 25.1s	_	n 58s
174. 175:	learn: 0.2569094	total: 25.1s	_	n 57s
175: 176:	learn: 0.2566873	total: 25.3s	•	n 57s
170. 177:	learn: 0.2564908	total: 25.5s	_	n 57s
177. 178:	learn: 0.2562557		•	n 57s
178. 179:			•	
	learn: 0.2560166	total: 25.7s	•	n 57s
180:	learn: 0.2557982	total: 25.9s	•	n 56s
181:	learn: 0.2556141	total: 26s	•	n 56s
182:	learn: 0.2553661	total: 26.1s	•	n 56s
183:	learn: 0.2551496	total: 26.3s		n 56s
184:	learn: 0.2549096	total: 26.4s	•	n 56s
185:	learn: 0.2546798	total: 26.6s	•	n 56s
186:	learn: 0.2544216	total: 26.7s	•	n 56s
187:	learn: 0.2542046	total: 26.8s	•	n 55s
188:	learn: 0.2539923	total: 27s	•	n 55s
189:	learn: 0.2537676	total: 27.1s	_	n 55s
190:	learn: 0.2535506	total: 27.2s	•	n 55s
191:	learn: 0.2533108	total: 27.4s	O	n 55s
192:	learn: 0.2531158	total: 27.5s	remaining: 1	n 54s

193:	learn: 0.2529072	total: 27.6s	remaining: 1m 54s
194:	learn: 0.2526912	total: 27.8s	remaining: 1m 54s
195:	learn: 0.2524888	total: 27.9s	remaining: 1m 54s
196:	learn: 0.2522815	total: 28s	remaining: 1m 54s
197:	learn: 0.2520687	total: 28.2s	remaining: 1m 54s
			<u> </u>
198:	learn: 0.2518720	total: 28.3s	remaining: 1m 53s
199:	learn: 0.2516618	total: 28.4s	remaining: 1m 53s
200:	learn: 0.2514653	total: 28.6s	remaining: 1m 53s
201:	learn: 0.2512491	total: 28.7s	remaining: 1m 53s
202:	learn: 0.2510473	total: 28.8s	remaining: 1m 53s
203:	learn: 0.2508109	total: 29s	remaining: 1m 53s
			•
204:	learn: 0.2506154	total: 29.1s	remaining: 1m 52s
205:	learn: 0.2504148	total: 29.2s	remaining: 1m 52s
206:	learn: 0.2502069	total: 29.4s	remaining: 1m 52s
207:	learn: 0.2500220	total: 29.5s	remaining: 1m 52s
208:	learn: 0.2498174	total: 29.7s	remaining: 1m 52s
209:	learn: 0.2496307	total: 29.8s	remaining: 1m 52s
210:	learn: 0.2494224	total: 29.9s	remaining: 1m 51s
			<u> </u>
211:	learn: 0.2492154	total: 30.1s	remaining: 1m 51s
212:	learn: 0.2490336	total: 30.2s	remaining: 1m 51s
213:	learn: 0.2488680	total: 30.3s	remaining: 1m 51s
214:	learn: 0.2486533	total: 30.5s	remaining: 1m 51s
215:	learn: 0.2484477	total: 30.6s	remaining: 1m 51s
216:	learn: 0.2482554	total: 30.8s	remaining: 1m 51s
			•
217:	learn: 0.2480612	total: 30.9s	remaining: 1m 50s
218:	learn: 0.2478701	total: 31s	remaining: 1m 50s
219:	learn: 0.2476679	total: 31.2s	remaining: 1m 50s
220:	learn: 0.2474600	total: 31.3s	remaining: 1m 50s
221:	learn: 0.2472755	total: 31.4s	remaining: 1m 50s
222:	learn: 0.2470944	total: 31.6s	remaining: 1m 49s
223:	learn: 0.2469297	total: 31.7s	remaining: 1m 49s
224:	learn: 0.2467352	total: 31.8s	remaining: 1m 49s
225:	learn: 0.2465515	total: 32s	remaining: 1m 49s
225:	learn: 0.2463584	total: 32.1s	remaining: 1m 49s
			<u> </u>
227:	learn: 0.2461482	total: 32.3s	remaining: 1m 49s
228:	learn: 0.2459608	total: 32.5s	remaining: 1m 49s
229:	learn: 0.2457718	total: 32.7s	remaining: 1m 49s
230:	learn: 0.2456044	total: 32.8s	remaining: 1m 49s
231:	learn: 0.2454313	total: 33s	remaining: 1m 49s
232:	learn: 0.2452457	total: 33.2s	remaining: 1m 49s
233:	learn: 0.2450734	total: 33.3s	remaining: 1m 49s
234:	learn: 0.2449157	total: 33.4s	remaining: 1m 48s
			•
235:	learn: 0.2447116	total: 33.6s	remaining: 1m 48s
236:	learn: 0.2445408	total: 33.7s	remaining: 1m 48s
237:	learn: 0.2443852	total: 33.8s	remaining: 1m 48s
238:	learn: 0.2442158	total: 34s	remaining: 1m 48s
239:	learn: 0.2440280	total: 34.1s	remaining: 1m 47s
240:	learn: 0.2438570	total: 34.2s	remaining: 1m 47s
241:	learn: 0.2436741	total: 34.4s	remaining: 1m 47s
242:	learn: 0.2434941	total: 34.5s	remaining: 1m 47s
	learn: 0.2432722		•
243:		total: 34.6s	remaining: 1m 47s
244:	learn: 0.2430775	total: 34.8s	remaining: 1m 47s
245:	learn: 0.2429183	total: 34.9s	remaining: 1m 47s
246:	learn: 0.2427464	total: 35.1s	remaining: 1m 46s
247:	learn: 0.2425903	total: 35.2s	remaining: 1m 46s
248:	learn: 0.2424401	total: 35.3s	remaining: 1m 46s
249:	learn: 0.2422746	total: 35.4s	remaining: 1m 46s
250:	learn: 0.2420871	total: 35.6s	remaining: 1m 46s
251:	learn: 0.2419127	total: 35.7s	remaining: 1m 45s
27±•	1001 H. 0.2717121	COCUI. 33./3	, ca 111 118 • 111 73

252:	learn: 0.2417469	total: 35.8s	remaining:	1m 45s
253:	learn: 0.2415985	total: 36s	remaining:	1m 45s
254:	learn: 0.2414253	total: 36.1s	remaining:	1m 45s
			_	
255:	learn: 0.2412671	total: 36.3s	remaining:	1m 45s
256:	learn: 0.2410860	total: 36.4s	remaining:	1m 45s
257:	learn: 0.2409205	total: 36.5s	remaining:	1m 45s
258:	learn: 0.2407425	total: 36.7s	remaining:	1m 44s
259:	learn: 0.2405927	total: 36.8s	remaining:	1m 44s
			•	
260:	learn: 0.2404286	total: 37s	remaining:	1m 44s
261:	learn: 0.2402634	total: 37.1s	remaining:	1m 44s
262:	learn: 0.2401124	total: 37.2s	remaining:	1m 44s
263:	learn: 0.2399604	total: 37.4s	remaining:	1m 44s
264:	learn: 0.2397933	total: 37.5s	remaining:	1m 44s
			_	
265:	learn: 0.2396638	total: 37.6s	remaining:	1m 43s
266:	learn: 0.2394902	total: 37.8s	remaining:	1m 43s
267:	learn: 0.2393180	total: 37.9s	remaining:	1m 43s
268:	learn: 0.2391459	total: 38.1s	remaining:	1m 43s
269:	learn: 0.2389704	total: 38.2s	remaining:	1m 43s
			-	
270:	learn: 0.2388068	total: 38.3s	remaining:	1m 43s
271:	learn: 0.2386465	total: 38.5s	remaining:	1m 42s
272:	learn: 0.2384626	total: 38.6s	remaining:	1m 42s
273:	learn: 0.2383169	total: 38.7s	remaining:	1m 42s
274:	learn: 0.2381618		•	1m 42s
		total: 38.9s	remaining:	
275:	learn: 0.2380039	total: 39s	remaining:	1m 42s
276:	learn: 0.2378439	total: 39.1s	remaining:	1m 42s
277:	learn: 0.2376928	total: 39.3s	remaining:	1m 42s
278:	learn: 0.2375149	total: 39.4s	remaining:	1m 41s
279:	learn: 0.2373620	total: 39.5s	remaining:	1m 41s
			_	
280:	learn: 0.2372040	total: 39.7s	remaining:	1m 41s
281:	learn: 0.2370306	total: 39.8s	remaining:	1m 41s
282:	learn: 0.2368530	total: 40s	remaining:	1m 41s
283:	learn: 0.2367002	total: 40.1s	remaining:	1m 41s
284:	learn: 0.2365722	total: 40.3s	remaining:	
			-	
285:	learn: 0.2364168	total: 40.4s	remaining:	
286:	learn: 0.2362446	total: 40.5s	remaining:	1m 40s
287:	learn: 0.2360846	total: 40.7s	remaining:	1m 40s
288:	learn: 0.2359153	total: 40.8s	remaining:	1m 40s
289:	learn: 0.2357645	total: 41s	•	1m 40s
290:	learn: 0.2356113	total: 41.1s	remaining:	
			_	
291:	learn: 0.2354715	total: 41.2s	remaining:	1m 39s
292:	learn: 0.2353238	total: 41.4s	remaining:	1m 39s
293:	learn: 0.2351748	total: 41.5s	remaining:	1m 39s
294:	learn: 0.2350215	total: 41.6s	remaining:	1m 39s
295:	learn: 0.2348688	total: 41.8s	remaining:	
			_	
296:	learn: 0.2347111	total: 41.9s	remaining:	
297:	learn: 0.2345428	total: 42.1s	remaining:	1m 39s
298:	learn: 0.2343829	total: 42.2s	remaining:	1m 38s
299:	learn: 0.2342442	total: 42.3s	remaining:	1m 38s
300:	learn: 0.2340698	total: 42.5s	remaining:	
301:	learn: 0.2339224	total: 42.6s	remaining:	
302:	learn: 0.2337652	total: 42.8s	remaining:	1 m 38s
303:	learn: 0.2336259	total: 42.9s	remaining:	1 m 38s
304:	learn: 0.2334726	total: 43.1s	remaining:	1m 38s
305:	learn: 0.2333155	total: 43.2s	•	1m 38s
			_	
306:	learn: 0.2331773	total: 43.3s	remaining:	
307:	learn: 0.2330275	total: 43.5s	remaining:	1 m 37s
308:	learn: 0.2328829	total: 43.6s	remaining:	1 m 37s
309:	learn: 0.2327296	total: 43.8s	_	1m 37s
310:	learn: 0.2326020	total: 43.9s	remaining:	
210.	1Cui II. 0.2320020	COCUI. 43.95	i ciliatiitiig.	III 7/3

311:	learn: 0.2	232/1363	total:	// c	remaining:	1m	37c
312:	learn: 0.2		total:		remaining:		
313:	learn: 0.2		total:		remaining:		
314:	learn: 0.2		total:		remaining:		
314. 315:	learn: 0.2		total:		•		
					remaining:		
316:	learn: 0.2		total:		remaining:		36s
317:	learn: 0.2		total:		remaining:		
318:	learn: 0.2		total:		remaining:		
319:	learn: 0.2		total:		remaining:		
320:	learn: 0.2		total:		remaining:		
321:	learn: 0.2		total:		remaining:		
322:	learn: 0.2		total:		remaining:		
323:	learn: 0.2		total:		remaining:		
324:	learn: 0.2		total:		remaining:		
325:	learn: 0.2		total:	45.9s	remaining:		
326:	learn: 0.2		total:	46.1s	remaining:		
327:	learn: 0.2	2301573	total:	46.2s	remaining:	1 m	34s
328:	learn: 0.2	300298	total:	46.4s	remaining:	1 m	34s
329:	learn: 0.2	299040	total:	46.5s	remaining:	1 m	34s
330:	learn: 0.2	297560	total:	46.6s	remaining:	1 m	34s
331:	learn: 0.2	296067	total:	46.8s	remaining:	1 m	34s
332:	learn: 0.2	294828	total:	46.9s	remaining:		33s
333:	learn: 0.2	293505	total:	47.1s	remaining:		33s
334:	learn: 0.2	292094	total:	47.2s	remaining:		
335:	learn: 0.2		total:		remaining:		
336:	learn: 0.2		total:		remaining:		
337:	learn: 0.2		total:		remaining:		33s
338:	learn: 0.2		total:		remaining:		
339:	learn: 0.2		total:		remaining:		
340:	learn: 0.2		total:		remaining:		
341:	learn: 0.2		total:		remaining:		
342:	learn: 0.2		total:		remaining:		
343:	learn: 0.2		total:		remaining:		
344:	learn: 0.2		total:		remaining:		
345:	learn: 0.2		total:		remaining:		32s
346:	learn: 0.2		total:		remaining:		
347:	learn: 0.2		total:		remaining:		
348:	learn: 0.2		total:		remaining:		
349:	learn: 0.2		total:		remaining:		
349. 350:	learn: 0.2		total:		remaining:		
350. 351:	learn: 0.2		total:		remaining:		31s
351: 352:	learn: 0.2		total:		remaining:		
352: 353:	learn: 0.2		total:		remaining:		
353. 354:			total:		•		
	learn: 0.2				remaining:		
355:	learn: 0.2		total:		remaining:		
356:	learn: 0.2		total:		remaining:		30s
357:	learn: 0.2		total:		remaining:		
358:	learn: 0.2		total:		remaining:		
359:	learn: 0.2		total:		remaining:		
360:	learn: 0.2		total:		remaining:		
361:	learn: 0.2		total:		remaining:		30s
362:	learn: 0.2		total:		remaining:		
363:	learn: 0.2		total:		remaining:		
364:	learn: 0.2		total:		remaining:		
365:	learn: 0.2		total:		remaining:		
366:	learn: 0.2		total:		remaining:		29s
367:	learn: 0.2		total:		remaining:		
368:	learn: 0.2		total:		remaining:		
369:	learn: 0.2	246241	total:	52.2s	remaining:	1m	28s

370: learn: 0.2245034 total: 52.4s rem	maining: 1m	28c
	maining. im	
	_	28s
	maining: 1m	
		28s
	_	28s
	maining: 1m	
	•	27s
	maining: 1m	
	maining: 1m	
	•	27s
		27s
	maining: 1m	
	maining: 1m	
	maining: 1m	
385: learn: 0.2226246 total: 54.4s rem	maining: 1m	26s
		26s
387: learn: 0.2223923 total: 54.7s rem	maining: 1m	26s
388: learn: 0.2222779 total: 54.8s rem	maining: 1m	26s
389: learn: 0.2221353 total: 55s rem	maining: 1m	25s
390: learn: 0.2220149 total: 55.1s rem	maining: 1m	25s
391: learn: 0.2218880 total: 55.2s rem	maining: 1m	25s
	maining: 1m	25s
393: learn: 0.2216547 total: 55.5s rem	maining: 1m	25s
		25s
		25s
	_	24s
	maining: 1m	
		24s
		24s
	maining: 1m	
	_	22s
	maining: 1m maining: 1m	
	maining. im	
	maining: 1m	
	maining: 1m	
	_	22s
	maining: 1m	
	_	21s
	maining: 1m	
	_	21s
	maining: 1m	
	maining: 1m	
		20s
		20s
	maining: 1m	20s
428: learn: 0.2174765 total: 1m rem	maining: 1m	20s

420.	Jaanne A 2172761	+o+o]. 1m	nomaining. 1m 20c
429: 430:	learn: 0.2173761 learn: 0.2172471	total: 1m	remaining: 1m 20s remaining: 1m 19s
		total: 1m	<u> </u>
431:	learn: 0.2171359	total: 1m	remaining: 1m 19s
432:	learn: 0.2170299	total: 1m	remaining: 1m 19s
433:	learn: 0.2169169	total: 1m	remaining: 1m 19s
434:	learn: 0.2168063	total: 1m 1s	remaining: 1m 19s
435:	learn: 0.2166901	total: 1m 1s	remaining: 1m 19s
436:	learn: 0.2165680	total: 1m 1s	remaining: 1m 19s
437:	learn: 0.2164548	total: 1m 1s	remaining: 1m 18s
438:	learn: 0.2163251	total: 1m 1s	remaining: 1m 18s
439:	learn: 0.2162129	total: 1m 1s	remaining: 1m 18s
440:	learn: 0.2160932	total: 1m 1s	remaining: 1m 18s
441:	learn: 0.2159859	total: 1m 2s	remaining: 1m 18s
442:	learn: 0.2158714	total: 1m 2s	remaining: 1m 18s
443:	learn: 0.2157472	total: 1m 2s	remaining: 1m 18s
444:	learn: 0.2156370	total: 1m 2s	remaining: 1m 17s
445:	learn: 0.2155253	total: 1m 2s	remaining: 1m 17s
446:	learn: 0.2154146	total: 1m 2s	remaining: 1m 17s
447:	learn: 0.2152993	total: 1m 2s	remaining: 1m 17s
448:	learn: 0.2151683	total: 1m 3s	remaining: 1m 17s
449:	learn: 0.2150527	total: 1m 3s	remaining: 1m 17s
450:	learn: 0.2149432	total: 1m 3s	remaining: 1m 17s
451:	learn: 0.2148435	total: 1m 3s	remaining: 1m 16s
452:	learn: 0.2147378	total: 1m 3s	remaining: 1m 16s
453:	learn: 0.2146193	total: 1m 3s	remaining: 1m 16s
454:	learn: 0.2144855	total: 1m 3s	remaining: 1m 16s
455:	learn: 0.2143745	total: 1m 4s	remaining: 1m 16s
456:	learn: 0.2142767	total: 1m 4s	remaining: 1m 16s
457:	learn: 0.2141642	total: 1m 4s	remaining: 1m 16s
458:	learn: 0.2140520	total: 1m 4s	remaining: 1m 16s
459:	learn: 0.2139344	total: 1m 4s	remaining: 1m 16s
460:	learn: 0.2138291	total: 1m 4s	remaining: 1m 15s
461:	learn: 0.2137218	total: 1m 5s	remaining: 1m 15s
462:	learn: 0.2135943	total: 1m 5s	remaining: 1m 15s
463:	learn: 0.2134825	total: 1m 5s	remaining: 1m 15s
464:	learn: 0.2133696	total: 1m 5s	remaining: 1m 15s
465:	learn: 0.2132613	total: 1m 5s	remaining: 1m 15s
466:	learn: 0.2131485	total: 1m 5s	remaining: 1m 15s
467:	learn: 0.2130370	total: 1m 5s	remaining: 1m 14s
468:	learn: 0.2129433	total: 1m 6s	remaining: 1m 14s
469:	learn: 0.2128533	total: 1m 6s	remaining: 1m 14s
470:	learn: 0.2127458	total: 1m 6s	remaining: 1m 14s
471:	learn: 0.2126402	total: 1m 6s	remaining: 1m 14s
472:	learn: 0.2125367	total: 1m 6s	remaining: 1m 14s
473:	learn: 0.2124237	total: 1m 6s	remaining: 1m 14s
474:	learn: 0.2123235	total: 1m 6s	remaining: 1m 13s
475:	learn: 0.2121950	total: 1m 7s	remaining: 1m 13s
476:	learn: 0.2120898	total: 1m 7s	remaining: 1m 13s
477:	learn: 0.2119836	total: 1m 7s	remaining: 1m 13s
478:	learn: 0.2118772	total: 1m 7s	remaining: 1m 13s
479:	learn: 0.2117809	total: 1m 7s	remaining: 1m 13s
480:	learn: 0.2116863	total: 1m 7s	remaining: 1m 13s
481:	learn: 0.2115853	total: 1m 7s	remaining: 1m 12s
482:	learn: 0.2114731	total: 1m 8s	remaining: 1m 12s
483:	learn: 0.2113636	total: 1m 8s	remaining: 1m 12s
484:	learn: 0.2112589	total: 1m 8s	remaining: 1m 12s
485:	learn: 0.2112303	total: 1m 8s	remaining: 1m 12s
486:	learn: 0.2111/32	total: 1m 8s	remaining: 1m 12s
487:	learn: 0.210002	total: 1m 8s	remaining: 1m 12s
- 0/•	100111. 0.2107/27	COCCIT. III OS	. cmaining. im 123

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488:
                                  total: 1m 8s
                                                   remaining: 1m 11s
        learn: 0.2108712
489:
        learn: 0.2107671
                                  total: 1m 8s
                                                   remaining: 1m 11s
490:
                                  total: 1m 9s
                                                   remaining: 1m 11s
        learn: 0.2106413
                                                   remaining: 1m 11s
491:
        learn: 0.2105395
                                  total: 1m 9s
492:
        learn: 0.2104354
                                  total: 1m 9s
                                                   remaining: 1m 11s
493:
        learn: 0.2103254
                                  total: 1m 9s
                                                   remaining: 1m 11s
494:
        learn: 0.2102164
                                  total: 1m 9s
                                                   remaining: 1m 11s
                                                   remaining: 1m 10s
495:
                                  total: 1m 9s
        learn: 0.2101232
496:
        learn: 0.2100278
                                  total: 1m 9s
                                                   remaining: 1m 10s
497:
        learn: 0.2099329
                                  total: 1m 10s
                                                   remaining: 1m 10s
498:
        learn: 0.2098237
                                  total: 1m 10s
                                                   remaining: 1m 10s
499:
                                  total: 1m 10s
        learn: 0.2097210
                                                   remaining: 1m 10s
500:
        learn: 0.2096133
                                  total: 1m 10s
                                                   remaining: 1m 10s
                                  total: 1m 10s
501:
        learn: 0.2095128
                                                   remaining: 1m 10s
                                  total: 1m 10s
                                                   remaining: 1m 9s
502:
        learn: 0.2094057
503:
        learn: 0.2092962
                                  total: 1m 10s
                                                   remaining: 1m 9s
504:
        learn: 0.2091916
                                  total: 1m 11s
                                                   remaining: 1m 9s
505:
        learn: 0.2091020
                                  total: 1m 11s
                                                   remaining: 1m 9s
        learn: 0.2090024
                                  total: 1m 11s
506:
                                                   remaining: 1m 9s
507:
        learn: 0.2088992
                                  total: 1m 11s
                                                   remaining: 1m 9s
508:
        learn: 0.2088038
                                  total: 1m 11s
                                                   remaining: 1m 9s
                                  total: 1m 11s
509:
        learn: 0.2087124
                                                   remaining: 1m 8s
510:
        learn: 0.2086184
                                  total: 1m 11s
                                                   remaining: 1m 8s
511:
        learn: 0.2085151
                                  total: 1m 12s
                                                   remaining: 1m 8s
512:
                                  total: 1m 12s
        learn: 0.2084192
                                                   remaining: 1m 8s
                                  total: 1m 12s
513:
        learn: 0.2083324
                                                   remaining: 1m 8s
514:
        learn: 0.2082193
                                  total: 1m 12s
                                                   remaining: 1m 8s
515:
                                  total: 1m 12s
        learn: 0.2081284
                                                   remaining: 1m 8s
516:
        learn: 0.2080221
                                  total: 1m 12s
                                                   remaining: 1m 8s
517:
        learn: 0.2079189
                                  total: 1m 12s
                                                   remaining: 1m 7s
518:
        learn: 0.2078175
                                  total: 1m 13s
                                                   remaining: 1m 7s
                                                   remaining: 1m 7s
519:
        learn: 0.2077053
                                  total: 1m 13s
520:
        learn: 0.2075968
                                  total: 1m 13s
                                                   remaining: 1m 7s
521:
        learn: 0.2074939
                                  total: 1m 13s
                                                   remaining: 1m 7s
522:
        learn: 0.2073823
                                  total: 1m 13s
                                                   remaining: 1m 7s
523:
                                  total: 1m 13s
        learn: 0.2072877
                                                   remaining: 1m 7s
                                  total: 1m 13s
524:
        learn: 0.2071923
                                                   remaining: 1m 6s
525:
                                  total: 1m 14s
                                                   remaining: 1m 6s
        learn: 0.2070973
                                  total: 1m 14s
526:
        learn: 0.2069924
                                                   remaining: 1m 6s
527:
                                  total: 1m 14s
                                                   remaining: 1m 6s
        learn: 0.2068998
528:
                                  total: 1m 14s
        learn: 0.2068008
                                                   remaining: 1m 6s
529:
        learn: 0.2067052
                                  total: 1m 14s
                                                   remaining: 1m 6s
530:
        learn: 0.2066040
                                  total: 1m 14s
                                                   remaining: 1m 6s
531:
        learn: 0.2065158
                                  total: 1m 14s
                                                   remaining: 1m 5s
                                                   remaining: 1m 5s
532:
        learn: 0.2064312
                                  total: 1m 15s
533:
        learn: 0.2063262
                                  total: 1m 15s
                                                   remaining: 1m 5s
534:
        learn: 0.2062297
                                  total: 1m 15s
                                                   remaining: 1m 5s
                                  total: 1m 15s
535:
        learn: 0.2061300
                                                   remaining: 1m 5s
                                  total: 1m 15s
536:
        learn: 0.2060172
                                                   remaining: 1m 5s
537:
                                  total: 1m 15s
        learn: 0.2059037
                                                   remaining: 1m 5s
538:
        learn: 0.2058170
                                  total: 1m 15s
                                                   remaining: 1m 4s
539:
        learn: 0.2057158
                                  total: 1m 15s
                                                   remaining: 1m 4s
540:
        learn: 0.2056191
                                  total: 1m 16s
                                                   remaining: 1m 4s
541:
        learn: 0.2055340
                                  total: 1m 16s
                                                   remaining: 1m 4s
542:
        learn: 0.2054488
                                  total: 1m 16s
                                                   remaining: 1m 4s
                                  total: 1m 16s
543:
        learn: 0.2053537
                                                   remaining: 1m 4s
544:
        learn: 0.2052422
                                  total: 1m 16s
                                                   remaining: 1m 4s
545:
        learn: 0.2051537
                                  total: 1m 16s
                                                   remaining: 1m 3s
546:
        learn: 0.2050675
                                  total: 1m 16s
                                                   remaining: 1m 3s
```

547:	learn: 0.2049722	total: 1m 17s	remaining:	1m 3s
548:	learn: 0.2048877	total: 1m 17s	remaining:	
549:	learn: 0.2047897	total: 1m 17s	remaining:	
550:	learn: 0.2046803	total: 1m 17s	remaining:	
551:	learn: 0.2045780	total: 1m 17s	remaining:	
552:	learn: 0.2044759	total: 1m 17s	remaining:	1m 2s
553:	learn: 0.2043686	total: 1m 17s	remaining:	1m 2s
554:	learn: 0.2042708	total: 1m 18s	remaining:	1m 2s
555:	learn: 0.2041857	total: 1m 18s	remaining:	
556:	learn: 0.2041026	total: 1m 18s	remaining:	
557:	learn: 0.2040026	total: 1m 18s	remaining:	1m 2s
558:	learn: 0.2038998	total: 1m 18s	remaining:	1m 2s
559:	learn: 0.2038109	total: 1m 18s	remaining:	
560:	learn: 0.2037108	total: 1m 18s	remaining:	
561:	learn: 0.2036074	total: 1m 19s	remaining:	
562:	learn: 0.2035062	total: 1m 19s	remaining:	1m 1s
563:	learn: 0.2034073	total: 1m 19s	remaining:	1m 1s
564:	learn: 0.2033197	total: 1m 19s	remaining:	
565:	learn: 0.2033137	total: 1m 19s	remaining:	1m 1s
566:	learn: 0.2031487	total: 1m 19s	remaining:	1m 13
567:	learn: 0.2030619	total: 1m 19s	remaining:	1m
568:	learn: 0.2029923	total: 1m 20s	remaining:	1m
569:	learn: 0.2029923	total: 1m 20s	remaining:	1m
579:	learn: 0.2028016	total: 1m 20s	remaining.	1m
570. 571:	learn: 0.2027111	total: 1m 20s	remaining.	1m
571. 572:	learn: 0.2026054	total: 1m 20s	remaining.	1m
572: 573:	learn: 0.2025071	total: 1m 20s	remaining:	1m
573: 574:	learn: 0.2024063	total: 1m 20s	remaining:	
575:	learn: 0.2024003	total: 1m 21s	remaining:	
576:	learn: 0.2023031	total: 1m 21s	remaining:	
570. 577:	learn: 0.2022115	total: 1m 21s	remaining:	
577 . 578:	learn: 0.2021113	total: 1m 21s	remaining:	
570: 579:	learn: 0.2019051	total: 1m 21s	remaining:	
580:	learn: 0.2019031	total: 1m 21s	remaining:	
581:	learn: 0.2010233	total: 1m 22s	remaining:	59s
582:	learn: 0.201/563	total: 1m 22s	remaining:	
583:	learn: 0.2015872	total: 1m 22s	remaining:	
584:	learn: 0.2015072	total: 1m 22s	remaining:	
585:	learn: 0.2014265	total: 1m 22s	remaining:	
586:	learn: 0.2013306	total: 1m 22s	remaining:	58.3s
587:	learn: 0.2013300	total: 1m 22s	remaining:	58.1s
588:	learn: 0.2011485	total: 1m 23s	remaining:	
589:	learn: 0.2010614	total: 1m 23s	remaining:	
590:	learn: 0.2009717	total: 1m 23s	remaining:	
591:	learn: 0.2008775	total: 1m 23s	remaining:	
592:	learn: 0.2007789	total: 1m 23s	remaining:	
593:	learn: 0.2007789	total: 1m 23s	remaining:	
594:	learn: 0.2006064	total: 1m 23s	remaining:	
595:	learn: 0.2005216	total: 1m 24s	remaining:	
596:	learn: 0.2004436	total: 1m 24s	remaining:	
597:	learn: 0.2003573	total: 1m 24s	remaining:	
598:	learn: 0.2003575	total: 1m 24s	remaining:	
599:	learn: 0.2001668	total: 1m 24s	remaining:	
600:	learn: 0.2001000	total: 1m 24s	remaining:	
601:	learn: 0.1999793	total: 1m 24s	remaining:	
602:	learn: 0.1998872	total: 1m 25s	remaining:	56s
603:	learn: 0.1997854	total: 1m 25s	remaining:	
604:	learn: 0.1996916	total: 1m 25s	remaining:	
605:	learn: 0.1995997	total: 1m 25s	remaining:	
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total: 1m 25s
                                                   remaining: 55.5s
606:
        learn: 0.1994915
607:
        learn: 0.1994054
                                 total: 1m 25s
                                                   remaining: 55.3s
                                                   remaining: 55.2s
                                 total: 1m 25s
608:
        learn: 0.1993119
                                 total: 1m 26s
609:
        learn: 0.1992424
                                                   remaining: 55s
610:
        learn: 0.1991677
                                 total: 1m 26s
                                                   remaining: 54.9s
611:
        learn: 0.1990822
                                 total: 1m 26s
                                                   remaining: 54.8s
                                                   remaining: 54.6s
612:
        learn: 0.1990077
                                 total: 1m 26s
                                 total: 1m 26s
613:
        learn: 0.1989058
                                                   remaining: 54.5s
614:
        learn: 0.1988234
                                 total: 1m 26s
                                                   remaining: 54.3s
615:
        learn: 0.1987201
                                 total: 1m 26s
                                                   remaining: 54.2s
616:
        learn: 0.1986243
                                 total: 1m 27s
                                                   remaining: 54.1s
                                 total: 1m 27s
617:
        learn: 0.1985239
                                                   remaining: 53.9s
        learn: 0.1984259
                                 total: 1m 27s
618:
                                                   remaining: 53.8s
                                 total: 1m 27s
619:
        learn: 0.1983577
                                                   remaining: 53.6s
                                 total: 1m 27s
620:
        learn: 0.1982864
                                                   remaining: 53.5s
                                 total: 1m 27s
621:
        learn: 0.1982028
                                                   remaining: 53.3s
                                 total: 1m 27s
622:
        learn: 0.1981123
                                                   remaining: 53.2s
                                                   remaining: 53.1s
623:
        learn: 0.1980155
                                 total: 1m 28s
                                 total: 1m 28s
624:
        learn: 0.1979346
                                                   remaining: 52.9s
625:
        learn: 0.1978305
                                 total: 1m 28s
                                                   remaining: 52.8s
626:
        learn: 0.1977388
                                 total: 1m 28s
                                                   remaining: 52.6s
627:
        learn: 0.1976372
                                 total: 1m 28s
                                                   remaining: 52.5s
628:
        learn: 0.1975654
                                 total: 1m 28s
                                                   remaining: 52.4s
629:
        learn: 0.1974799
                                 total: 1m 28s
                                                   remaining: 52.2s
                                 total: 1m 29s
630:
        learn: 0.1973814
                                                   remaining: 52.1s
                                 total: 1m 29s
631:
        learn: 0.1972885
                                                   remaining: 52s
632:
        learn: 0.1972138
                                 total: 1m 29s
                                                   remaining: 51.8s
                                 total: 1m 29s
633:
        learn: 0.1971174
                                                   remaining: 51.7s
634:
        learn: 0.1970284
                                 total: 1m 29s
                                                   remaining: 51.5s
                                                   remaining: 51.4s
635:
        learn: 0.1969570
                                 total: 1m 29s
636:
        learn: 0.1968746
                                 total: 1m 29s
                                                   remaining: 51.3s
637:
        learn: 0.1967846
                                 total: 1m 30s
                                                   remaining: 51.1s
638:
        learn: 0.1967079
                                 total: 1m 30s
                                                   remaining: 51s
639:
        learn: 0.1966256
                                 total: 1m 30s
                                                   remaining: 50.8s
640:
        learn: 0.1965579
                                 total: 1m 30s
                                                   remaining: 50.7s
                                 total: 1m 30s
641:
        learn: 0.1964747
                                                   remaining: 50.6s
                                 total: 1m 30s
642:
        learn: 0.1963986
                                                   remaining: 50.4s
643:
                                 total: 1m 30s
        learn: 0.1963041
                                                   remaining: 50.3s
                                 total: 1m 31s
644:
        learn: 0.1962267
                                                   remaining: 50.1s
645:
                                 total: 1m 31s
        learn: 0.1961300
                                                   remaining: 50s
                                 total: 1m 31s
646:
        learn: 0.1960449
                                                   remaining: 49.9s
647:
        learn: 0.1959645
                                 total: 1m 31s
                                                   remaining: 49.7s
648:
        learn: 0.1958966
                                 total: 1m 31s
                                                   remaining: 49.6s
                                                   remaining: 49.4s
649:
        learn: 0.1957900
                                 total: 1m 31s
                                 total: 1m 31s
650:
        learn: 0.1956992
                                                   remaining: 49.3s
651:
        learn: 0.1956156
                                 total: 1m 32s
                                                   remaining: 49.2s
652:
        learn: 0.1955348
                                 total: 1m 32s
                                                   remaining: 49s
653:
        learn: 0.1954449
                                 total: 1m 32s
                                                   remaining: 48.9s
654:
                                 total: 1m 32s
                                                   remaining: 48.8s
        learn: 0.1953642
                                 total: 1m 32s
655:
        learn: 0.1952852
                                                   remaining: 48.6s
                                 total: 1m 32s
                                                   remaining: 48.5s
656:
        learn: 0.1952175
657:
                                 total: 1m 33s
        learn: 0.1951344
                                                   remaining: 48.3s
658:
        learn: 0.1950520
                                 total: 1m 33s
                                                   remaining: 48.2s
659:
        learn: 0.1949660
                                 total: 1m 33s
                                                   remaining: 48.1s
660:
        learn: 0.1948782
                                 total: 1m 33s
                                                   remaining: 47.9s
                                 total: 1m 33s
661:
        learn: 0.1947843
                                                   remaining: 47.8s
662:
        learn: 0.1946968
                                 total: 1m 33s
                                                   remaining: 47.6s
663:
        learn: 0.1946304
                                 total: 1m 33s
                                                   remaining: 47.5s
                                 total: 1m 34s
664:
        learn: 0.1945446
                                                   remaining: 47.4s
```

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665:
                                 total: 1m 34s
                                                   remaining: 47.2s
        learn: 0.1944595
                                                   remaining: 47.1s
666:
        learn: 0.1943921
                                 total: 1m 34s
667:
                                 total: 1m 34s
                                                   remaining: 46.9s
        learn: 0.1943055
                                 total: 1m 34s
668:
        learn: 0.1942056
                                                   remaining: 46.8s
669:
        learn: 0.1941272
                                 total: 1m 34s
                                                   remaining: 46.7s
670:
        learn: 0.1940461
                                 total: 1m 34s
                                                   remaining: 46.5s
                                                   remaining: 46.4s
671:
        learn: 0.1939688
                                 total: 1m 35s
                                 total: 1m 35s
672:
        learn: 0.1938845
                                                   remaining: 46.2s
673:
        learn: 0.1938083
                                 total: 1m 35s
                                                   remaining: 46.1s
674:
        learn: 0.1937290
                                 total: 1m 35s
                                                   remaining: 45.9s
675:
        learn: 0.1936512
                                 total: 1m 35s
                                                   remaining: 45.8s
                                 total: 1m 35s
676:
        learn: 0.1935712
                                                   remaining: 45.7s
677:
        learn: 0.1934942
                                 total: 1m 35s
                                                   remaining: 45.5s
                                 total: 1m 36s
678:
        learn: 0.1934230
                                                   remaining: 45.4s
                                 total: 1m 36s
679:
        learn: 0.1933399
                                                   remaining: 45.3s
680:
        learn: 0.1932570
                                 total: 1m 36s
                                                   remaining: 45.2s
681:
        learn: 0.1931782
                                 total: 1m 36s
                                                   remaining: 45.1s
                                                   remaining: 44.9s
682:
        learn: 0.1930869
                                 total: 1m 36s
683:
                                 total: 1m 36s
        learn: 0.1930127
                                                   remaining: 44.8s
684:
        learn: 0.1929413
                                 total: 1m 37s
                                                   remaining: 44.7s
685:
        learn: 0.1928619
                                 total: 1m 37s
                                                   remaining: 44.5s
686:
        learn: 0.1927701
                                 total: 1m 37s
                                                   remaining: 44.4s
687:
        learn: 0.1926856
                                 total: 1m 37s
                                                   remaining: 44.2s
688:
        learn: 0.1926081
                                 total: 1m 37s
                                                   remaining: 44.1s
                                 total: 1m 37s
689:
        learn: 0.1925230
                                                   remaining: 44s
                                 total: 1m 37s
690:
        learn: 0.1924437
                                                   remaining: 43.8s
691:
        learn: 0.1923644
                                 total: 1m 38s
                                                   remaining: 43.7s
692:
                                 total: 1m 38s
        learn: 0.1922797
                                                   remaining: 43.5s
693:
        learn: 0.1921857
                                 total: 1m 38s
                                                   remaining: 43.4s
694:
        learn: 0.1921100
                                 total: 1m 38s
                                                   remaining: 43.3s
695:
        learn: 0.1920415
                                 total: 1m 38s
                                                   remaining: 43.1s
696:
        learn: 0.1919656
                                 total: 1m 38s
                                                   remaining: 43s
                                 total: 1m 39s
697:
        learn: 0.1918858
                                                   remaining: 42.8s
698:
        learn: 0.1918059
                                 total: 1m 39s
                                                   remaining: 42.7s
699:
        learn: 0.1917354
                                 total: 1m 39s
                                                   remaining: 42.6s
700:
                                 total: 1m 39s
        learn: 0.1916612
                                                   remaining: 42.4s
701:
                                 total: 1m 39s
        learn: 0.1916014
                                                   remaining: 42.3s
702:
                                 total: 1m 39s
        learn: 0.1915248
                                                   remaining: 42.1s
                                 total: 1m 39s
703:
        learn: 0.1914435
                                                   remaining: 42s
704:
                                 total: 1m 39s
        learn: 0.1913595
                                                   remaining: 41.8s
705:
                                 total: 1m 40s
        learn: 0.1912786
                                                   remaining: 41.7s
706:
        learn: 0.1912015
                                 total: 1m 40s
                                                   remaining: 41.5s
707:
        learn: 0.1911182
                                 total: 1m 40s
                                                   remaining: 41.4s
                                                   remaining: 41.3s
708:
        learn: 0.1910379
                                 total: 1m 40s
709:
                                 total: 1m 40s
        learn: 0.1909454
                                                   remaining: 41.1s
710:
        learn: 0.1908585
                                 total: 1m 40s
                                                   remaining: 41s
711:
        learn: 0.1907665
                                 total: 1m 40s
                                                   remaining: 40.8s
                                 total: 1m 41s
712:
        learn: 0.1906780
                                                   remaining: 40.7s
                                 total: 1m 41s
                                                   remaining: 40.5s
713:
        learn: 0.1906138
        learn: 0.1905287
714:
                                 total: 1m 41s
                                                   remaining: 40.4s
715:
        learn: 0.1904626
                                 total: 1m 41s
                                                   remaining: 40.2s
716:
        learn: 0.1903790
                                 total: 1m 41s
                                                   remaining: 40.1s
717:
        learn: 0.1903084
                                 total: 1m 41s
                                                   remaining: 40s
718:
        learn: 0.1902262
                                 total: 1m 41s
                                                   remaining: 39.8s
719:
        learn: 0.1901526
                                 total: 1m 42s
                                                   remaining: 39.7s
                                 total: 1m 42s
720:
        learn: 0.1900734
                                                   remaining: 39.5s
721:
        learn: 0.1899959
                                 total: 1m 42s
                                                   remaining: 39.4s
722:
        learn: 0.1899149
                                 total: 1m 42s
                                                   remaining: 39.2s
723:
        learn: 0.1898332
                                 total: 1m 42s
                                                   remaining: 39.1s
```

724:	learn: 0.1897590	total: 1m 42s	remaining: 39s
725:	learn: 0.1896792	total: 1m 42s	remaining: 38.8s
726:	learn: 0.1896009	total: 1m 43s	remaining: 38.7s
727:	learn: 0.1895290	total: 1m 43s	remaining: 38.5s
727:	learn: 0.1894525	total: 1m 43s	remaining: 38.4s
720: 729:	learn: 0.1893929	total: 1m 43s	remaining: 38.3s
723. 730:	learn: 0.1893175	total: 1m 43s	remaining: 38.1s
730: 731:	learn: 0.1892363	total: 1m 43s	remaining: 38s
731. 732:	learn: 0.1891573	total: 1m 43s	remaining: 37.8s
732. 733:	learn: 0.1890705	total: 1m 44s	remaining: 37.7s
733. 734:	learn: 0.1889960	total: 1m 44s	remaining: 37.75
	learn: 0.1889208		
735:			remaining: 37.4s
736:	learn: 0.1888389	total: 1m 44s	remaining: 37.3s
737:	learn: 0.1887631	total: 1m 44s	remaining: 37.1s
738:	learn: 0.1886936	total: 1m 44s	remaining: 37s
739:	learn: 0.1886159	total: 1m 44s	remaining: 36.8s
740:	learn: 0.1885350	total: 1m 45s	remaining: 36.7s
741:	learn: 0.1884706	total: 1m 45s	remaining: 36.6s
742:	learn: 0.1884017	total: 1m 45s	remaining: 36.4s
743:	learn: 0.1883181	total: 1m 45s	remaining: 36.3s
744:	learn: 0.1882394	total: 1m 45s	remaining: 36.1s
745:	learn: 0.1881618	total: 1m 45s	remaining: 36s
746:	learn: 0.1880812	total: 1m 45s	remaining: 35.9s
747:	learn: 0.1880093	total: 1m 46s	remaining: 35.7s
748:	learn: 0.1879469	total: 1m 46s	remaining: 35.6s
749:	learn: 0.1878862	total: 1m 46s	remaining: 35.4s
750:	learn: 0.1878125	total: 1m 46s	remaining: 35.3s
751:	learn: 0.1877381	total: 1m 46s	remaining: 35.1s
752:	learn: 0.1876703	total: 1m 46s	remaining: 35s
753:	learn: 0.1876007	total: 1m 46s	remaining: 34.9s
754:	learn: 0.1875183	total: 1m 46s	remaining: 34.7s
755:	learn: 0.1874475	total: 1m 47s	remaining: 34.6s
756:	learn: 0.1873768	total: 1m 47s	remaining: 34.4s
757:	learn: 0.1872988	total: 1m 47s	remaining: 34.3s
758:	learn: 0.1872234	total: 1m 47s	remaining: 34.2s
759:	learn: 0.1871507	total: 1m 47s	remaining: 34s
760:	learn: 0.1870779	total: 1m 47s	remaining: 33.9s
761:	learn: 0.1870130	total: 1m 47s	remaining: 33.7s
762:	learn: 0.1869427	total: 1m 48s	remaining: 33.6s
763:	learn: 0.1868592	total: 1m 48s	remaining: 33.4s
764:	learn: 0.1867949	total: 1m 48s	remaining: 33.3s
765:	learn: 0.1867160	total: 1m 48s	remaining: 33.2s
766:	learn: 0.1866433	total: 1m 48s	remaining: 33s
767:	learn: 0.1865715	total: 1m 48s	remaining: 32.9s
768:	learn: 0.1865007	total: 1m 48s	remaining: 32.7s
769:	learn: 0.1864287	total: 1m 49s	remaining: 32.6s
770:	learn: 0.1863535	total: 1m 49s	remaining: 32.5s
771:	learn: 0.1862901	total: 1m 49s	remaining: 32.3s
772:	learn: 0.1862162	total: 1m 49s	remaining: 32.2s
773:	learn: 0.1861473	total: 1m 49s	remaining: 32:25
774:	learn: 0.1860756	total: 1m 49s	remaining: 31.9s
77 - 775:	learn: 0.1860101	total: 1m 49s	remaining: 31.7s
775: 776:	learn: 0.1859454	total: 1m 50s	remaining: 31.75
770. 777:	learn: 0.1858806	total: 1m 50s	remaining: 31.5s
777. 778:	learn: 0.1858042	total: 1m 50s	remaining: 31.3s
778. 779:	learn: 0.1857255	total: 1m 50s	remaining: 31.3s
779. 780:	learn: 0.1856385	total: 1m 50s	remaining: 31.25
780. 781:	learn: 0.1855581	total: 1m 50s	remaining: 30.9s
	learn: 0.1854837		_
782:	1earii. 0.185483/	total: 1m 50s	remaining: 30.7s

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783:
                                 total: 1m 51s
                                                   remaining: 30.6s
        learn: 0.1854191
784:
        learn: 0.1853376
                                 total: 1m 51s
                                                   remaining: 30.5s
785:
                                 total: 1m 51s
                                                   remaining: 30.3s
        learn: 0.1852596
                                 total: 1m 51s
786:
        learn: 0.1851908
                                                   remaining: 30.2s
787:
        learn: 0.1851321
                                 total: 1m 51s
                                                   remaining: 30s
788:
        learn: 0.1850603
                                 total: 1m 51s
                                                   remaining: 29.9s
                                                   remaining: 29.8s
789:
        learn: 0.1849907
                                 total: 1m 52s
790:
                                 total: 1m 52s
        learn: 0.1849097
                                                   remaining: 29.7s
791:
        learn: 0.1848424
                                 total: 1m 52s
                                                   remaining: 29.5s
792:
        learn: 0.1847721
                                 total: 1m 52s
                                                   remaining: 29.4s
793:
        learn: 0.1847023
                                 total: 1m 52s
                                                   remaining: 29.2s
794:
                                 total: 1m 52s
        learn: 0.1846341
                                                   remaining: 29.1s
795:
        learn: 0.1845649
                                 total: 1m 52s
                                                   remaining: 29s
796:
                                 total: 1m 53s
        learn: 0.1845033
                                                   remaining: 28.8s
797:
                                 total: 1m 53s
        learn: 0.1844418
                                                   remaining: 28.7s
798:
                                 total: 1m 53s
        learn: 0.1843736
                                                   remaining: 28.5s
799:
                                 total: 1m 53s
        learn: 0.1842847
                                                   remaining: 28.4s
                                                   remaining: 28.3s
800:
        learn: 0.1842080
                                 total: 1m 53s
                                 total: 1m 53s
801:
        learn: 0.1841564
                                                   remaining: 28.1s
802:
        learn: 0.1840810
                                 total: 1m 54s
                                                   remaining: 28s
803:
        learn: 0.1840144
                                 total: 1m 54s
                                                   remaining: 27.8s
                                                   remaining: 27.7s
804:
        learn: 0.1839491
                                 total: 1m 54s
805:
        learn: 0.1838719
                                 total: 1m 54s
                                                   remaining: 27.5s
        learn: 0.1838092
                                 total: 1m 54s
806:
                                                   remaining: 27.4s
                                 total: 1m 54s
807:
        learn: 0.1837384
                                                   remaining: 27.3s
                                 total: 1m 54s
808:
        learn: 0.1836714
                                                   remaining: 27.1s
809:
        learn: 0.1836000
                                 total: 1m 55s
                                                   remaining: 27s
                                 total: 1m 55s
810:
        learn: 0.1835245
                                                   remaining: 26.8s
811:
        learn: 0.1834534
                                 total: 1m 55s
                                                   remaining: 26.7s
812:
        learn: 0.1833773
                                 total: 1m 55s
                                                   remaining: 26.6s
813:
        learn: 0.1833239
                                 total: 1m 55s
                                                   remaining: 26.4s
814:
        learn: 0.1832691
                                 total: 1m 55s
                                                   remaining: 26.3s
815:
        learn: 0.1832022
                                 total: 1m 55s
                                                   remaining: 26.1s
816:
        learn: 0.1831399
                                 total: 1m 56s
                                                   remaining: 26s
817:
        learn: 0.1830733
                                 total: 1m 56s
                                                   remaining: 25.8s
818:
                                 total: 1m 56s
        learn: 0.1829980
                                                   remaining: 25.7s
                                 total: 1m 56s
819:
        learn: 0.1829248
                                                   remaining: 25.6s
820:
                                 total: 1m 56s
        learn: 0.1828430
                                                   remaining: 25.4s
                                 total: 1m 56s
821:
        learn: 0.1827684
                                                   remaining: 25.3s
822:
                                 total: 1m 56s
        learn: 0.1826900
                                                   remaining: 25.1s
823:
        learn: 0.1826094
                                 total: 1m 57s
                                                   remaining: 25s
824:
        learn: 0.1825511
                                 total: 1m 57s
                                                   remaining: 24.9s
825:
        learn: 0.1824715
                                 total: 1m 57s
                                                   remaining: 24.7s
                                                   remaining: 24.6s
826:
        learn: 0.1824116
                                 total: 1m 57s
827:
        learn: 0.1823373
                                 total: 1m 57s
                                                   remaining: 24.4s
828:
        learn: 0.1822607
                                 total: 1m 57s
                                                   remaining: 24.3s
829:
        learn: 0.1821990
                                 total: 1m 57s
                                                   remaining: 24.1s
830:
        learn: 0.1821231
                                 total: 1m 58s
                                                   remaining: 24s
831:
                                 total: 1m 58s
        learn: 0.1820377
                                                   remaining: 23.9s
832:
        learn: 0.1819666
                                 total: 1m 58s
                                                   remaining: 23.7s
                                                   remaining: 23.6s
833:
        learn: 0.1818976
                                 total: 1m 58s
834:
        learn: 0.1818394
                                 total: 1m 58s
                                                   remaining: 23.4s
835:
        learn: 0.1817703
                                 total: 1m 58s
                                                   remaining: 23.3s
                                 total: 1m 58s
836:
        learn: 0.1816981
                                                   remaining: 23.1s
837:
        learn: 0.1816451
                                 total: 1m 58s
                                                   remaining: 23s
                                 total: 1m 59s
838:
        learn: 0.1815670
                                                   remaining: 22.9s
839:
        learn: 0.1814874
                                 total: 1m 59s
                                                   remaining: 22.7s
840:
        learn: 0.1814274
                                 total: 1m 59s
                                                   remaining: 22.6s
841:
        learn: 0.1813529
                                 total: 1m 59s
                                                   remaining: 22.4s
```

842:	learn: 0.1812850	total: 1m 59s	remaining:	22.3s
843:	learn: 0.1812303	total: 1m 59s	remaining:	22.1s
844:	learn: 0.1811726	total: 1m 59s	remaining:	22s
845:	learn: 0.1811023	total: 2m	remaining:	21.9s
846:	learn: 0.1810302	total: 2m	remaining:	21.7s
847:	learn: 0.1809606	total: 2m	remaining:	
848:	learn: 0.1808773	total: 2m	remaining:	
849:	learn: 0.1808014	total: 2m	remaining:	
850:	learn: 0.1807486	total: 2m	remaining:	
851:	learn: 0.1806700	total: 2m	remaining:	
852:	learn: 0.1806063	total: 2m 1s	remaining:	
853:	learn: 0.1805299	total: 2m 1s	remaining:	20.7s
854:	learn: 0.1804782	total: 2m 1s	remaining:	
855:	learn: 0.1804142	total: 2m 1s	remaining:	
856:	learn: 0.1803578	total: 2m 1s	remaining:	
857:	learn: 0.1803378	total: 2m 1s	remaining.	20.25
858:	learn: 0.1802193	total: 2m 1s	_	20.25 20s
			remaining:	
859:	learn: 0.1801653	total: 2m 2s	remaining:	
860:	learn: 0.1800940	total: 2m 2s	remaining:	
861:	learn: 0.1800152	total: 2m 2s	remaining:	
862:	learn: 0.1799336	total: 2m 2s	remaining:	19.5s
863:	learn: 0.1798736	total: 2m 2s	remaining:	19.3s
864:	learn: 0.1798143	total: 2m 2s	remaining:	
865:	learn: 0.1797457	total: 2m 3s	remaining:	19s
866:	learn: 0.1796763	total: 2m 3s	remaining:	18.9s
867:	learn: 0.1796045	total: 2m 3s	remaining:	
868:	learn: 0.1795398	total: 2m 3s	remaining:	18.6s
869:	learn: 0.1794701	total: 2m 3s	remaining:	18.5s
870:	learn: 0.1794100	total: 2m 3s	remaining:	18.3s
871:	learn: 0.1793509	total: 2m 3s	remaining:	18.2s
872:	learn: 0.1792751	total: 2m 4s	remaining:	18.1s
873:	learn: 0.1792000	total: 2m 4s	remaining:	17.9s
874:	learn: 0.1791313	total: 2m 4s	remaining:	17.8s
875:	learn: 0.1790638	total: 2m 4s	remaining:	17.6s
876:	learn: 0.1789957	total: 2m 4s	remaining:	17.5s
877:	learn: 0.1789553	total: 2m 4s	remaining:	17.3s
878:	learn: 0.1788967	total: 2m 4s	remaining:	17.2s
879:	learn: 0.1788369	total: 2m 5s	remaining:	17.1s
880:	learn: 0.1787821	total: 2m 5s	remaining:	16.9s
881:	learn: 0.1787247	total: 2m 5s	remaining:	16.8s
882:	learn: 0.1786646	total: 2m 5s	remaining:	16.6s
883:	learn: 0.1786003	total: 2m 5s	remaining:	16.5s
884:	learn: 0.1785449	total: 2m 5s	remaining:	16.3s
885:	learn: 0.1784831	total: 2m 5s	remaining:	
886:	learn: 0.1784258	total: 2m 6s	remaining:	16.1s
887:	learn: 0.1783649	total: 2m 6s	remaining:	15.9s
888:	learn: 0.1783099	total: 2m 6s	remaining:	15.8s
889:	learn: 0.1782530	total: 2m 6s	remaining:	15.6s
890:	learn: 0.1782930	total: 2m 6s	remaining:	15.5s
890:	learn: 0.1781322	total: 2m 6s	remaining:	15.3s
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892:	learn: 0.1780558	total: 2m 6s	remaining:	15.2s
893:	learn: 0.1779863	total: 2m 7s	remaining:	15.1s
894:	learn: 0.1779239	total: 2m 7s	remaining:	14.9s
895:	learn: 0.1778606	total: 2m 7s	remaining:	14.8s
896:	learn: 0.1777957	total: 2m 7s	remaining:	14.6s
897:	learn: 0.1777280	total: 2m 7s	remaining:	14.5s
898:	learn: 0.1776745	total: 2m 7s	remaining:	14.4s
899:	learn: 0.1775991	total: 2m 8s	remaining:	14.2s
900:	learn: 0.1775287	total: 2m 8s	remaining:	14.1s

901: learn: 0.1774081 total: 2m 8s remaining: 13.8s 903: learn: 0.1773325 total: 2m 8s remaining: 13.7s 904: learn: 0.177395 total: 2m 8s remaining: 13.7s 904: learn: 0.1771995 total: 2m 9s remaining: 13.5s 906: learn: 0.1771992 total: 2m 9s remaining: 13.1s 906: learn: 0.1771992 total: 2m 9s remaining: 13.1s 909: learn: 0.1770697 total: 2m 9s remaining: 13.1s 909: learn: 0.1770142 total: 2m 9s remaining: 13.1s 909: learn: 0.1769514 total: 2m 9s remaining: 13.1s 909: learn: 0.1769514 total: 2m 9s remaining: 12.8s 910: learn: 0.1769514 total: 2m 9s remaining: 12.8s 910: learn: 0.1767663 total: 2m 9s remaining: 12.8s 913: learn: 0.1767663 total: 2m 9s remaining: 12.5s 912: learn: 0.1767663 total: 2m 9s remaining: 12.5s 913: learn: 0.1766541 total: 2m 10s remaining: 12.5s 914: learn: 0.1766541 total: 2m 10s remaining: 12.5s 915: learn: 0.1765900 total: 2m 10s remaining: 12.5s 916: learn: 0.1765900 total: 2m 10s remaining: 11.8s 917: learn: 0.1764727 total: 2m 10s remaining: 11.8s 919: learn: 0.1764727 total: 2m 10s remaining: 11.7s 918: learn: 0.1764088 total: 2m 10s remaining: 11.7s 918: learn: 0.1762084 total: 2m 11s remaining: 11.1s 922: learn: 0.1762084 total: 2m 11s remaining: 11.1s 923: learn: 0.1760984 total: 2m 11s remaining: 11.1s 923: learn: 0.1769782 total: 2m 11s remaining: 10.8s 925: learn: 0.1758948 total: 2m 11s remaining: 10.8s 927: learn: 0.1758948 total: 2m 11s remaining: 10.8s 927: learn: 0.1758948 total: 2m 12s remaining: 10.4s 928: learn: 0.1758948 total: 2m 12s remaining: 9.97s 930: learn: 0.1758045 total: 2m 12s remaining: 9.98s 930: learn: 0.1758046 total: 2m 12s remaining: 9.98s 930: learn: 0.1758048 total: 2m 12s remaining: 9.98s 933: learn: 0.1758048 total: 2m 12s remaining: 9.88s 933: learn: 0.1758048 total: 2m 12s remaining: 9.68s 939: learn: 0.1758048 total: 2m 12s remaining: 9.68s 939: learn: 0.1758048 total: 2m 12s remaining: 9.68s 939: learn: 0.1758048 total: 2m 12s remaining: 9.68s 933: learn: 0.1754089 total: 2m 13s remaining: 9.68s 942: learn: 0.1746064 total: 2m 13s remaining:					
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904: learn: 0.1772795	902:	learn: 0.1774081	total: 2m 8s	remaining:	13.8s
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906: learn: 0.1771392	905:	learn: 0.1771998	total: 2m 9s	remaining:	13.4s
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952:learn:0.1742685total:2m 15sremaining:6.69s953:learn:0.1742150total:2m 15sremaining:6.55s954:learn:0.1741582total:2m 16sremaining:6.41s955:learn:0.1740894total:2m 16sremaining:6.27s956:learn:0.1740366total:2m 16sremaining:6.12s957:learn:0.1739912total:2m 16sremaining:5.98s958:learn:0.1739333total:2m 16sremaining:5.84s	950:	learn: 0.1743969	total: 2m 15s	remaining:	6.98s
953:learn:0.1742150total:2m15sremaining:6.55s954:learn:0.1741582total:2m16sremaining:6.41s955:learn:0.1740894total:2m16sremaining:6.27s956:learn:0.1740366total:2m16sremaining:6.12s957:learn:0.1739912total:2m16sremaining:5.98s958:learn:0.1739333total:2m16sremaining:5.84s	951:	learn: 0.1743370	total: 2m 15s	remaining:	6.84s
954:learn:0.1741582total:2m 16sremaining:6.41s955:learn:0.1740894total:2m 16sremaining:6.27s956:learn:0.1740366total:2m 16sremaining:6.12s957:learn:0.1739912total:2m 16sremaining:5.98s958:learn:0.1739333total:2m 16sremaining:5.84s	952:	learn: 0.1742685	total: 2m 15s	remaining:	6.69s
955:learn:0.1740894total:2m 16sremaining:6.27s956:learn:0.1740366total:2m 16sremaining:6.12s957:learn:0.1739912total:2m 16sremaining:5.98s958:learn:0.1739333total:2m 16sremaining:5.84s	953:	learn: 0.1742150	total: 2m 15s	remaining:	6.55s
956:learn:0.1740366total:2m16sremaining:6.12s957:learn:0.1739912total:2m16sremaining:5.98s958:learn:0.1739333total:2m16sremaining:5.84s	954:	learn: 0.1741582	total: 2m 16s	remaining:	6.41s
957: learn: 0.1739912 total: 2m 16s remaining: 5.98s 958: learn: 0.1739333 total: 2m 16s remaining: 5.84s	955:	learn: 0.1740894	total: 2m 16s	remaining:	6.27s
957:learn: 0.1739912total: 2m 16sremaining: 5.98s958:learn: 0.1739333total: 2m 16sremaining: 5.84s	956:	learn: 0.1740366	total: 2m 16s	remaining:	6.12s
958: learn: 0.1739333 total: 2m 16s remaining: 5.84s	957:	learn: 0.1739912	total: 2m 16s	remaining:	5.98s
959: learn: 0.1738685 total: 2m 16s remaining: 5.7s	958:	learn: 0.1739333	total: 2m 16s	remaining:	5.84s
	959:	learn: 0.1738685	total: 2m 16s	remaining:	5.7s

```
960:
        learn: 0.1738174
                                 total: 2m 16s
                                                  remaining: 5.55s
961:
        learn: 0.1737590
                                 total: 2m 17s
                                                  remaining: 5.41s
962:
                                 total: 2m 17s
                                                  remaining: 5.27s
        learn: 0.1736908
                                 total: 2m 17s
963:
        learn: 0.1736446
                                                  remaining: 5.13s
964:
        learn: 0.1736000
                                 total: 2m 17s
                                                  remaining: 4.98s
965:
        learn: 0.1735368
                                 total: 2m 17s
                                                  remaining: 4.84s
                                                  remaining: 4.7s
        learn: 0.1734833
                                 total: 2m 17s
966:
967:
                                 total: 2m 17s
        learn: 0.1734287
                                                  remaining: 4.56s
                                 total: 2m 17s
968:
        learn: 0.1733777
                                                  remaining: 4.41s
969:
        learn: 0.1733040
                                 total: 2m 18s
                                                  remaining: 4.27s
970:
        learn: 0.1732404
                                 total: 2m 18s
                                                  remaining: 4.13s
                                 total: 2m 18s
971:
        learn: 0.1731557
                                                  remaining: 3.99s
972:
        learn: 0.1730994
                                 total: 2m 18s
                                                  remaining: 3.85s
973:
                                 total: 2m 18s
        learn: 0.1730231
                                                  remaining: 3.7s
974:
                                 total: 2m 18s
        learn: 0.1729566
                                                  remaining: 3.56s
975:
        learn: 0.1729026
                                 total: 2m 19s
                                                  remaining: 3.42s
976:
        learn: 0.1728362
                                 total: 2m 19s
                                                  remaining: 3.28s
                                                  remaining: 3.13s
977:
        learn: 0.1727759
                                 total: 2m 19s
978:
        learn: 0.1727202
                                 total: 2m 19s
                                                  remaining: 2.99s
979:
        learn: 0.1726577
                                 total: 2m 19s
                                                  remaining: 2.85s
980:
        learn: 0.1726083
                                 total: 2m 19s
                                                  remaining: 2.71s
                                                  remaining: 2.56s
981:
        learn: 0.1725443
                                 total: 2m 19s
982:
        learn: 0.1724791
                                 total: 2m 20s
                                                  remaining: 2.42s
                                 total: 2m 20s
983:
        learn: 0.1724293
                                                  remaining: 2.28s
984:
                                 total: 2m 20s
        learn: 0.1723707
                                                  remaining: 2.14s
                                 total: 2m 20s
985:
        learn: 0.1723199
                                                  remaining: 1.99s
986:
        learn: 0.1722668
                                 total: 2m 20s
                                                  remaining: 1.85s
987:
                                 total: 2m 20s
        learn: 0.1722104
                                                  remaining: 1.71s
988:
        learn: 0.1721383
                                 total: 2m 20s
                                                  remaining: 1.57s
                                                  remaining: 1.42s
989:
        learn: 0.1720754
                                 total: 2m 21s
990:
        learn: 0.1720144
                                 total: 2m 21s
                                                  remaining: 1.28s
991:
        learn: 0.1719601
                                 total: 2m 21s
                                                  remaining: 1.14s
992:
        learn: 0.1719093
                                 total: 2m 21s
                                                  remaining: 997ms
993:
        learn: 0.1718440
                                 total: 2m 21s
                                                  remaining: 854ms
994:
        learn: 0.1717793
                                 total: 2m 21s
                                                  remaining: 712ms
995:
                                 total: 2m 21s
        learn: 0.1717097
                                                  remaining: 570ms
                                 total: 2m 21s
996:
        learn: 0.1716431
                                                  remaining: 427ms
                                 total: 2m 22s
997:
        learn: 0.1715718
                                                  remaining: 285ms
                                 total: 2m 22s
998:
        learn: 0.1715075
                                                  remaining: 142ms
999:
                                 total: 2m 22s
        learn: 0.1714573
                                                  remaining: Ous
      learning_rate=0.03, 12_leaf_reg=3, iterations=1000, depth=8, ctr_b
[CV]
order_count=200, border_count=50, score=0.8845313495744977, total= 2.5mi
n
[CV] learning_rate=0.03, l2_leaf_reg=3, iterations=1000, depth=8, ctr_bo
rder_count=200, border_count=50
                                 total: 178ms
0:
        learn: 0.6671076
                                                  remaining: 2m 57s
1:
        learn: 0.6427777
                                 total: 368ms
                                                  remaining: 3m 3s
2:
        learn: 0.6197880
                                 total: 585ms
                                                  remaining: 3m 14s
3:
        learn: 0.5985834
                                 total: 797ms
                                                  remaining: 3m 18s
4:
        learn: 0.5785973
                                 total: 993ms
                                                  remaining: 3m 17s
5:
        learn: 0.5603532
                                 total: 1.2s
                                                  remaining: 3m 18s
6:
        learn: 0.5429924
                                 total: 1.38s
                                                  remaining: 3m 15s
7:
        learn: 0.5271044
                                 total: 1.58s
                                                  remaining: 3m 15s
8:
        learn: 0.5124361
                                 total: 1.75s
                                                  remaining: 3m 13s
9:
        learn: 0.4989122
                                 total: 1.96s
                                                  remaining: 3m 14s
10:
        learn: 0.4860592
                                 total: 2.17s
                                                  remaining: 3m 15s
11:
        learn: 0.4742977
                                 total: 2.33s
                                                  remaining: 3m 12s
12:
        learn: 0.4634497
                                 total: 2.49s
                                                  remaining: 3m 8s
                                 total: 2.63s
13:
        learn: 0.4530205
                                                  remaining: 3m 5s
```

	ning: 3m 3s	•
	ning: 3m 1s	
	ning: 2m 58	
	ning: 2m 56	
	ning: 2m 54	
19: learn: 0.4035951 total: 3.53s remain	•	
	ning: 2m 52	
21: learn: 0.3908492 total: 3.83s remain	ning: 2m 50	s
22: learn: 0.3850019 total: 3.98s remain	ning: 2m 49	s
23: learn: 0.3796665 total: 4.11s remain	ning: 2m 47	's
24: learn: 0.3745407 total: 4.26s remain	ning: 2m 46	S
25: learn: 0.3698743 total: 4.4s remain	ning: 2m 44	ŀs
26: learn: 0.3653549 total: 4.54s remain	ning: 2m 43	s
27: learn: 0.3613834 total: 4.7s remain	ning: 2m 43	s
	ning: 2m 42	
	ning: 2m 41	
30: learn: 0.3506996 total: 5.11s remain	_	
	ning: 2m 38	
	ning: 2m 37	
	ning: 2m 36	
	ning: 2m 36	
35: learn: 0.3362947 total: 5.8s remain	•	
	ning: 2m 34	
	•	
37: learn: 0.3313684 total: 6.06s remain	•	
	ning: 2m 33	
	ning: 2m 32	
40: learn: 0.3250341 total: 6.48s remain	•	
	ning: 2m 30	
	ning: 2m 29	
	ning: 2m 29	
	ning: 2m 29	s
	ning: 2m 29	
46: learn: 0.3150799 total: 7.36s remain	ning: 2m 29	s
47: learn: 0.3137264 total: 7.54s remain	ning: 2m 29	s
48: learn: 0.3124005 total: 7.7s remain	ning: 2m 29	s
49: learn: 0.3111728 total: 7.86s remain	ning: 2m 29	s
50: learn: 0.3099684 total: 8.04s remain	ning: 2m 29	s
51: learn: 0.3088427 total: 8.19s remain	ning: 2m 29	s
52: learn: 0.3076722 total: 8.32s remain	ning: 2m 28	S
	ning: 2m 28	
	ning: 2m 29	
	ning: 2m 29	
	ning: 2m 29	
	ning: 2m 28	
	ning: 2m 28	
59: learn: 0.3009991 total: 9.43s remain	•	
	ning: 2m 27	
	ning: 2m 27	
	_	
	ning: 2m 25	
	ning: 2m 25	
	ning: 2m 25	
	ning: 2m 24	
	ning: 2m 24	
	ning: 2m 23	
	ning: 2m 23	
	ning: 2m 22	
	ning: 2m 22	
	ning: 2m 21	
72: learn: 0.2921785 total: 11.1s remain	ning: 2m 21	.S

73:	learn: 0.2917146	total: 11.3s	remaining:	2m 20	ıc
73. 74:	learn: 0.2917140	total: 11.3s	remaining:		
74. 75:	learn: 0.2906029	total: 11.43	remaining:		
75: 76:	learn: 0.2900425	total: 11.7s	remaining:		
70: 77:	learn: 0.2895245	total: 11.73	remaining:		
77: 78:	learn: 0.2889965	total: 11.03	remaining:		
70: 79:	learn: 0.2885460	total: 12s	remaining:		
80:	learn: 0.2880364	total: 12.2s	remaining:		
81:	learn: 0.2875487	total: 12.2s	remaining:		
82:	learn: 0.2870592	total: 12.4s	remaining:		
83:	learn: 0.2865888	total: 12.45	remaining:		
84:	learn: 0.2861269	total: 12.7s	remaining:		
85:	learn: 0.2856786	total: 12.8s	remaining:		
86:	learn: 0.2852511	total: 13s	remaining:		
87:	learn: 0.2848233	total: 13.1s	remaining:		
88:	learn: 0.2843893	total: 13.2s	remaining:		
89:	learn: 0.2839508	total: 13.4s	remaining:		
90:	learn: 0.2835285	total: 13.5s	remaining:		
91:	learn: 0.2831185	total: 13.7s	remaining:		
92:	learn: 0.2826955	total: 13.8s	remaining:		
93:	learn: 0.2823307	total: 13.9s	remaining:		
94:	learn: 0.2819128	total: 14.1s	remaining:		
95:	learn: 0.2815277	total: 14.2s	remaining:		
96:	learn: 0.2811262	total: 14.3s	remaining:		
97:	learn: 0.2807102	total: 14.4s	remaining:		
98:	learn: 0.2803768	total: 14.6s	remaining:		
99:	learn: 0.2800049	total: 14.7s	remaining:		
100:	learn: 0.2796510	total: 14.8s	remaining:		
101:	learn: 0.2792906	total: 15s	remaining:		
102:	learn: 0.2789197	total: 15.1s	remaining:		
103:	learn: 0.2785535	total: 15.2s	remaining:		
104:	learn: 0.2781822	total: 15.3s	remaining:		
105:	learn: 0.2778356	total: 15.5s	remaining:		
106:	learn: 0.2775042	total: 15.6s	remaining:		
107:	learn: 0.2771534	total: 15.7s	remaining:	2m 9s	
108:	learn: 0.2768131	total: 15.9s	remaining:	2m 9s	;
109:	learn: 0.2764794	total: 16s	remaining:	2m 9s	;
110:	learn: 0.2761435	total: 16.2s	remaining:		
111:	learn: 0.2758176	total: 16.3s	remaining:		
112:	learn: 0.2755203	total: 16.4s	remaining:	2m 8s	,
113:	learn: 0.2751942	total: 16.5s	remaining:		
114:	learn: 0.2748534	total: 16.7s	remaining:	2m 8s	;
115:	learn: 0.2745269	total: 16.8s	remaining:	2m 8s	;
116:	learn: 0.2742125	total: 17s	remaining:	2m 7s	;
117:	learn: 0.2738640	total: 17.1s	remaining:	2m 7s	;
118:	learn: 0.2735738	total: 17.2s	remaining:	2m 7s	;
119:	learn: 0.2733014	total: 17.4s	remaining:	2m 7s	;
120:	learn: 0.2729791	total: 17.5s	remaining:	2m 7s	;
121:	learn: 0.2726680	total: 17.6s	remaining:		
122:	learn: 0.2723831	total: 17.8s	remaining:		
123:	learn: 0.2720875	total: 17.9s	remaining:	2m 6s	;
124:	learn: 0.2717810	total: 18s	remaining:		
125:	learn: 0.2715144	total: 18.2s	remaining:		
126:	learn: 0.2712140	total: 18.3s	remaining:		
127:	learn: 0.2709051	total: 18.4s	remaining:		
128:	learn: 0.2705992	total: 18.6s	remaining:		
129:	learn: 0.2703465	total: 18.7s	remaining:		
130:	learn: 0.2700878	total: 18.8s	remaining:		
131:	learn: 0.2698016	total: 19s	remaining:	2m 4s	,

132: learn: 0.2694993		-			_
134: learn: 0.2688065 total: 19.35 remaining: 2m 35	132:	learn: 0.2694903	total: 19.1s	_	
135: Learn: 0.2686046 total: 19.55 remaining: 2m 3s 136: Learn: 0.2680329 total: 19.65 remaining: 2m 3s 137: Learn: 0.2677394 total: 19.75 remaining: 2m 3s 138: Learn: 0.2677394 total: 19.95 remaining: 2m 2s 139: Learn: 0.2677329 total: 20.5 remaining: 2m 2s 140: Learn: 0.2660821 total: 20.35 remaining: 2m 2s 141: Learn: 0.2666814 total: 20.45 remaining: 2m 2s 142: Learn: 0.2666814 total: 20.45 remaining: 2m 2s 143: Learn: 0.2661609 total: 20.45 remaining: 2m 2s 144: Learn: 0.26516060 total: 20.75 remaining: 2m 2s 145: Learn: 0.2655406 total: 20.85 remaining: 2m 1s 147: Learn: 0.2654361 total: 21.85 remaining: 2m 1s 147: Learn: 0.2654361 total: 21.5 remaining: 2m 1s 148: Learn: 0.2654361 total: 21.5 remaining: 2m 1s 149: Learn: 0.2643665 total: 21.45 remaining: 2m 1s 159: Learn: 0.2643661 total: 21.45 remaining: 2m 1s 159: Learn: 0.2643661 total: 21.5 remaining: 2m 1s 151: Learn: 0.2643861 total: 21.5 remaining: 2m 1s 151: Learn: 0.2643861 total: 21.5 remaining: 2m 152: Learn: 0.2643861 total: 21.85 remaining: 2m 153: Learn: 0.2634868 total: 21.85 remaining: 2m 154: Learn: 0.2636683 total: 22.5 remaining: 2m 155: Learn: 0.2634384 total: 22.5 remaining: 2m 156: Learn: 0.2623486 total: 22.45 remaining: 2m 157: Learn: 0.262486 total: 22.45 remaining: 1m 59s 158: Learn: 0.262486 total: 22.45 remaining: 1m 59s 159: Learn: 0.2624986 total: 22.45 remaining: 1m 59s 160: Learn: 0.262986 total: 22.45 remaining: 1m 59s 161: Learn: 0.262986 total: 22.45 remaining: 1m 59s 162: Learn: 0.262987 total: 23.5 remaining: 1m 59s 163: Learn: 0.2619916 total: 23.65 remaining: 1m 59s 164: Learn: 0.2619916 total: 23.65 remaining: 1m 59s 165: Learn: 0.2619916 total: 23.65 remaining: 1m 59s 166: Learn: 0.2638	133:	learn: 0.2691930	total: 19.2s	remaining: 2m 4	4s
135: Learn: 0.2686046 total: 19.55 remaining: 2m 3s 136: Learn: 0.2680329 total: 19.65 remaining: 2m 3s 137: Learn: 0.2677394 total: 19.75 remaining: 2m 3s 138: Learn: 0.2677394 total: 19.95 remaining: 2m 2s 139: Learn: 0.2677329 total: 20.5 remaining: 2m 2s 140: Learn: 0.2660821 total: 20.35 remaining: 2m 2s 141: Learn: 0.2666814 total: 20.45 remaining: 2m 2s 142: Learn: 0.2666814 total: 20.45 remaining: 2m 2s 143: Learn: 0.2661609 total: 20.45 remaining: 2m 2s 144: Learn: 0.26516060 total: 20.75 remaining: 2m 2s 145: Learn: 0.2655406 total: 20.85 remaining: 2m 1s 147: Learn: 0.2654361 total: 21.85 remaining: 2m 1s 147: Learn: 0.2654361 total: 21.5 remaining: 2m 1s 148: Learn: 0.2654361 total: 21.5 remaining: 2m 1s 149: Learn: 0.2643665 total: 21.45 remaining: 2m 1s 159: Learn: 0.2643661 total: 21.45 remaining: 2m 1s 159: Learn: 0.2643661 total: 21.5 remaining: 2m 1s 151: Learn: 0.2643861 total: 21.5 remaining: 2m 1s 151: Learn: 0.2643861 total: 21.5 remaining: 2m 152: Learn: 0.2643861 total: 21.85 remaining: 2m 153: Learn: 0.2634868 total: 21.85 remaining: 2m 154: Learn: 0.2636683 total: 22.5 remaining: 2m 155: Learn: 0.2634384 total: 22.5 remaining: 2m 156: Learn: 0.2623486 total: 22.45 remaining: 2m 157: Learn: 0.262486 total: 22.45 remaining: 1m 59s 158: Learn: 0.262486 total: 22.45 remaining: 1m 59s 159: Learn: 0.2624986 total: 22.45 remaining: 1m 59s 160: Learn: 0.262986 total: 22.45 remaining: 1m 59s 161: Learn: 0.262986 total: 22.45 remaining: 1m 59s 162: Learn: 0.262987 total: 23.5 remaining: 1m 59s 163: Learn: 0.2619916 total: 23.65 remaining: 1m 59s 164: Learn: 0.2619916 total: 23.65 remaining: 1m 59s 165: Learn: 0.2619916 total: 23.65 remaining: 1m 59s 166: Learn: 0.2638	134:	learn: 0.2688865	total: 19.3s	remaining: 2m 3	3s
136: learn: 0.2683221 total: 19.65 remaining: 2m 3s 137: learn: 0.2680389 total: 19.75 remaining: 2m 3s 138: learn: 0.2674819 total: 19.95 remaining: 2m 3s 139: learn: 0.2674819 total: 20.5 remaining: 2m 2s 140: learn: 0.2666821 total: 20.25 remaining: 2m 2s 141: learn: 0.2666821 total: 20.45 remaining: 2m 2s 142: learn: 0.2666814 total: 20.45 remaining: 2m 2s 143: learn: 0.266680921 total: 20.65 remaining: 2m 2s 143: learn: 0.2661609 total: 20.65 remaining: 2m 2s 144: learn: 0.2656406 total: 20.75 remaining: 2m 2s 145: learn: 0.2656406 total: 20.75 remaining: 2m 1s 146: learn: 0.2654061 total: 21.5 remaining: 2m 1s 148: learn: 0.2654361 total: 21.5 remaining: 2m 1s 148: learn: 0.2654361 total: 21.5 remaining: 2m 1s 149: learn: 0.2649640 total: 21.45 remaining: 2m 1s 150: learn: 0.2643661 total: 21.45 remaining: 2m 1s 150: learn: 0.2643661 total: 21.65 remaining: 2m 1s 150: learn: 0.2643661 total: 21.65 remaining: 2m 1s 151: learn: 0.2643661 total: 21.65 remaining: 2m 1s 153: learn: 0.2634984 total: 21.85 remaining: 2m 1s 153: learn: 0.2634984 total: 22.5 remaining: 2m 1s 155: learn: 0.2634984 total: 22.5 remaining: 2m 1s 157: learn: 0.262482 total: 22.5 remaining: 2m 1s 157: learn: 0.262482 total: 22.45 remaining: 2m 1s 159: learn: 0.262482 total: 22.45 remaining: 2m 1s 159: learn: 0.262482 total: 22.55 remaining: 2m 1s 159: learn: 0.262499 total: 22.55 remaining: 2m 1s 159: learn: 0.2614995 total: 23.55 remaining: 2m 1s 159: learn: 0.2614995 total: 23.55 remaining: 2m 1s 159: learn: 0.259	135:	learn: 0.2686046	total: 19.5s	_	
137: learn: 0.2680389				•	
138: learn: 0.2677819				•	
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182:learn:0.2570166total:26sremaining:1m 56s183:learn:0.2568081total:26.2sremaining:1m 55s184:learn:0.2565841total:26.3sremaining:1m 55s185:learn:0.2563599total:26.4sremaining:1m 55s186:learn:0.2561271total:26.6sremaining:1m 55s187:learn:0.2559193total:26.7sremaining:1m 55s188:learn:0.2556903total:26.8sremaining:1m 55s189:learn:0.2554810total:26.9sremaining:1m 54s	181:	learn: 0.2572584	total: 25.9s	remaining: 1m 5	56s
183:learn:0.2568081total:26.2sremaining:1m 55s184:learn:0.2565841total:26.3sremaining:1m 55s185:learn:0.2563599total:26.4sremaining:1m 55s186:learn:0.2561271total:26.6sremaining:1m 55s187:learn:0.2559193total:26.7sremaining:1m 55s188:learn:0.2556903total:26.8sremaining:1m 55s189:learn:0.2554810total:26.9sremaining:1m 54s				•	
184:learn:0.2565841total:26.3sremaining:1m 55s185:learn:0.2563599total:26.4sremaining:1m 55s186:learn:0.2561271total:26.6sremaining:1m 55s187:learn:0.2559193total:26.7sremaining:1m 55s188:learn:0.2556903total:26.8sremaining:1m 55s189:learn:0.2554810total:26.9sremaining:1m 54s				_	
185: learn: 0.2563599 total: 26.4s remaining: 1m 55s 186: learn: 0.2561271 total: 26.6s remaining: 1m 55s 187: learn: 0.2559193 total: 26.7s remaining: 1m 55s 188: learn: 0.2556903 total: 26.8s remaining: 1m 55s 189: learn: 0.2554810 total: 26.9s remaining: 1m 54s				•	
186: learn: 0.2561271 total: 26.6s remaining: 1m 55s 187: learn: 0.2559193 total: 26.7s remaining: 1m 55s 188: learn: 0.2556903 total: 26.8s remaining: 1m 55s 189: learn: 0.2554810 total: 26.9s remaining: 1m 54s				_	
187:learn:0.2559193total:26.7sremaining:1m55s188:learn:0.2556903total:26.8sremaining:1m55s189:learn:0.2554810total:26.9sremaining:1m54s				•	
188: learn: 0.2556903 total: 26.8s remaining: 1m 55s 189: learn: 0.2554810 total: 26.9s remaining: 1m 54s				•	
189: learn: 0.2554810 total: 26.9s remaining: 1m 54s				_	
· · · · · · · · · · · · · · · · · · ·				_	
190: learn: 0.2552591 total: 27.1s remaining: 1m 54s	189:	learn: 0.2554810	total: 26.9s	•	
	190:	learn: 0.2552591	total: 27.1s	remaining: 1m 5	54s

191:	learn: 0.2550632	total:	27 2c	remaining:	1 m	5/c
191:	learn: 0.2548376			remaining:		
193:	learn: 0.2546262			remaining:		
193: 194:	learn: 0.2544140			remaining:		
195:	learn: 0.2542030			remaining:		
195: 196:	learn: 0.2542030			remaining:		53s
190. 197:	learn: 0.2538060			remaining:		
197. 198:	learn: 0.2535913			•		
				remaining:		
199:	learn: 0.2534084			remaining:		
200:	learn: 0.2531939			remaining:		
201:	learn: 0.2529751			remaining:		
202:	learn: 0.2527803			remaining:		
203:	learn: 0.2525713			remaining:		
204:	learn: 0.2523532			remaining:		
205:	learn: 0.2521779			remaining:		
206:	learn: 0.2519739			remaining:		
207:	learn: 0.2517581			remaining:		51s
208:	learn: 0.2515451			remaining:		
209:	learn: 0.2513447			remaining:		
210:	learn: 0.2511450	total:	29.8s	remaining:	1 m	51s
211:	learn: 0.2509774	total:	30s	remaining:	1 m	51s
212:	learn: 0.2507748	total:	30.1s	remaining:	1 m	51s
213:	learn: 0.2505630	total:	30.2s	remaining:	1 m	51s
214:	learn: 0.2503779	total:	30.4s	remaining:	1 m	50s
215:	learn: 0.2501792	total:	30.5s	remaining:	1 m	50s
216:	learn: 0.2499790	total:	30.6s	remaining:	1 m	50s
217:	learn: 0.2497731	total:	30.8s	remaining:		50s
218:	learn: 0.2495841	total:	30.9s	remaining:		
219:	learn: 0.2493985	total:	31s	remaining:		
220:	learn: 0.2492068	total:	31.2s	remaining:		49s
221:	learn: 0.2490022			remaining:		
222:	learn: 0.2487992			remaining:		49s
223:	learn: 0.2486185			remaining:		49s
224:	learn: 0.2484383			remaining:		49s
225:	learn: 0.2482452			remaining:		49s
226:	learn: 0.2480634			remaining:		48s
227:	learn: 0.2478734			remaining:		48s
228:	learn: 0.2477010			remaining:		48s
229:	learn: 0.2475111			remaining:		
230:	learn: 0.2473213			remaining:		48s
231:	learn: 0.2471180			remaining:		48s
232:	learn: 0.2469217			remaining:		47s
232:	learn: 0.2467182			remaining:		47s
234:	learn: 0.2465259			remaining:		
234:	learn: 0.2463212			remaining:		47s
				_		
236:	learn: 0.2461319			remaining:		47s
237:	learn: 0.2459425			remaining:		
238:	learn: 0.2457651			remaining:		
239:	learn: 0.2455769			remaining:		
240:	learn: 0.2454115			remaining:		46s
241:	learn: 0.2452360			remaining:		46s
242:	learn: 0.2450738			remaining:		
243:	learn: 0.2448934			remaining:		
244:	learn: 0.2447144			remaining:		46s
245:	learn: 0.2445243			remaining:		
246:	learn: 0.2443416			remaining:		45s
247:	learn: 0.2441803			remaining:		45s
248:	learn: 0.2439878			remaining:		45s
249:	learn: 0.2438133	total:	35.1s	remaining:	1m	45s

250.	loann: 0 2426262	+0+21, 25 3	c nomaining:	1m /Ec
250:	learn: 0.2436362 learn: 0.2434581	total: 35.2	0	
251:		total: 35.4	- C	
252:	learn: 0.2432858	total: 35.5	0	
253:	learn: 0.2431306	total: 35.6	-	
254:	learn: 0.2429587	total: 35.8	9	
255:	learn: 0.2428026	total: 35.9	9	1m 44s
256:	learn: 0.2426271	total: 36.1	- C	
257:	learn: 0.2424451	total: 36.2	9	
258:	learn: 0.2422502	total: 36.4	-	
259:	learn: 0.2420708	total: 36.5		
260:	learn: 0.2419095	total: 36.6	0	1m 43s
261:	learn: 0.2417537	total: 36.8	- C	
262:	learn: 0.2415807	total: 36.9	9	
263:	learn: 0.2414073	total: 37s	remaining:	
264:	learn: 0.2412388	total: 37.2	-	
265:	learn: 0.2410630	total: 37.3	U	
266:	learn: 0.2408834	total: 37.5	0	1m 42s
267:	learn: 0.2407039	total: 37.6	U	
268:	learn: 0.2405353	total: 37.7	- C	
269:	learn: 0.2403605	total: 37.9	s remaining:	1m 42s
270:	learn: 0.2402003	total: 38s	remaining:	1m 42s
271:	learn: 0.2400322	total: 38.2	s remaining:	1m 42s
272:	learn: 0.2398961	total: 38.3	s remaining:	1m 41s
273:	learn: 0.2397407	total: 38.4	s remaining:	1m 41s
274:	learn: 0.2395982	total: 38.6	s remaining:	1m 41s
275:	learn: 0.2394282	total: 38.7	's remaining:	1m 41s
276:	learn: 0.2392622	total: 38.9	s remaining:	1m 41s
277:	learn: 0.2391025	total: 39.1	s remaining:	1m 41s
278:	learn: 0.2389446	total: 39.3	s remaining:	1m 41s
279:	learn: 0.2388070	total: 39.4	s remaining:	1m 41s
280:	learn: 0.2386363	total: 39.6	s remaining:	1m 41s
281:	learn: 0.2384860	total: 39.8	s remaining:	1m 41s
282:	learn: 0.2383277	total: 39.9	s remaining:	1m 41s
283:	learn: 0.2381900	total: 40.1	s remaining:	1m 41s
284:	learn: 0.2380406	total: 40.2	s remaining:	1m 40s
285:	learn: 0.2378915	total: 40.3	s remaining:	1m 40s
286:	learn: 0.2377345	total: 40.5		
287:	learn: 0.2375604	total: 40.6	s remaining:	1m 40s
288:	learn: 0.2373967	total: 40.8	s remaining:	1m 40s
289:	learn: 0.2372259	total: 40.9	s remaining:	1m 40s
290:	learn: 0.2370764	total: 41.1		
291:	learn: 0.2369058	total: 41.2		
292:	learn: 0.2367420	total: 41.3	•	
293:	learn: 0.2365875	total: 41.5	•	
294:	learn: 0.2364604	total: 41.6	•	
295:	learn: 0.2363290	total: 41.7	•	
296:	learn: 0.2361853	total: 41.9	•	
297:	learn: 0.2360286	total: 42s	remaining:	
298:	learn: 0.2358793	total: 42.2	_	
299:	learn: 0.2357148	total: 42.3	•	
300:	learn: 0.2355753	total: 42.4	_	
301:	learn: 0.2354331	total: 42.6	U	
302:	learn: 0.2352820	total: 42.7	•	
303:	learn: 0.2351458	total: 42.8	•	
304:	learn: 0.2349760	total: 42.c	remaining:	
305:	learn: 0.2348139	total: 43.1		
306:	learn: 0.2346658	total: 43.3		
307:	learn: 0.2345264	total: 43.4		
308:	learn: 0.2343687	total: 43.4	_	
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309:	learn: 0.2342252	total: 43.7s	remaining: 1m 37s
310:	learn: 0.2340840	total: 43.8s	remaining: 1m 37s
311:	learn: 0.2339282	total: 44s	remaining: 1m 36s
312:	learn: 0.2337910	total: 44.1s	remaining: 1m 36s
313:	learn: 0.2336592	total: 44.2s	remaining: 1m 36s
314:	learn: 0.2335091	total: 44.4s	remaining: 1m 36s
315:	learn: 0.2333703	total: 44.5s	remaining: 1m 36s
316:	learn: 0.2331955	total: 44.6s	remaining: 1m 36s
317:	learn: 0.2330471	total: 44.8s	remaining: 1m 36s
318:	learn: 0.2329147	total: 44.9s	remaining: 1m 35s
319:	learn: 0.2327473	total: 45s	remaining: 1m 35s
320:	learn: 0.2325998	total: 45.2s	remaining: 1m 35s
321:	learn: 0.2324740	total: 45.3s	remaining: 1m 35s
322:	learn: 0.2323308	total: 45.5s	remaining: 1m 35s
323:	learn: 0.2322024	total: 45.6s	remaining: 1m 35s
324: 325:	learn: 0.2320684 learn: 0.2319319	total: 45.7s total: 45.9s	remaining: 1m 34s remaining: 1m 34s
325. 326:	learn: 0.2317793	total: 45.95	remaining: 1m 34s
320. 327:	learn: 0.2316561	total: 46.1s	remaining: 1m 34s
327:	learn: 0.2315236	total: 46.3s	remaining: 1m 34s
329:	learn: 0.2313777	total: 46.4s	remaining: 1m 34s
330:	learn: 0.2312306	total: 46.5s	remaining: 1m 34s
331:	learn: 0.2310925	total: 46.7s	remaining: 1m 33s
332:	learn: 0.2309661	total: 46.8s	remaining: 1m 33s
333:	learn: 0.2308182	total: 47s	remaining: 1m 33s
334:	learn: 0.2306879	total: 47.1s	remaining: 1m 33s
335:	learn: 0.2305516	total: 47.2s	remaining: 1m 33s
336:	learn: 0.2304218	total: 47.4s	remaining: 1m 33s
337:	learn: 0.2302954	total: 47.5s	remaining: 1m 33s
338:	learn: 0.2301574	total: 47.7s	remaining: 1m 32s
339:	learn: 0.2300388	total: 47.8s	remaining: 1m 32s
340:	learn: 0.2299040	total: 47.9s	remaining: 1m 32s
341:	learn: 0.2297850	total: 48.1s	remaining: 1m 32s
342:	learn: 0.2296506	total: 48.2s	remaining: 1m 32s
343: 344:	learn: 0.2295049 learn: 0.2293551	total: 48.4s	remaining: 1m 32s
344: 345:	learn: 0.2293531	total: 48.5s total: 48.7s	remaining: 1m 32s remaining: 1m 31s
343. 346:	learn: 0.2292172	total: 48.8s	remaining: 1m 31s
347:	learn: 0.2289141	total: 48.9s	remaining: 1m 31s
348:	learn: 0.2287658	total: 49.1s	remaining: 1m 31s
349:	learn: 0.2286237	total: 49.2s	remaining: 1m 31s
350:	learn: 0.2284993	total: 49.4s	remaining: 1m 31s
351:	learn: 0.2283668	total: 49.5s	remaining: 1m 31s
352:	learn: 0.2282242	total: 49.7s	remaining: 1m 31s
353:	learn: 0.2280811	total: 49.8s	remaining: 1m 30s
354:	learn: 0.2279558	total: 49.9s	remaining: 1m 30s
355:	learn: 0.2278257	total: 50.1s	remaining: 1m 30s
356:	learn: 0.2276971	total: 50.2s	remaining: 1m 30s
357:	learn: 0.2275611	total: 50.4s	remaining: 1m 30s
358:	learn: 0.2274296	total: 50.5s	remaining: 1m 30s
359:	learn: 0.2272977	total: 50.6s	remaining: 1m 30s
360:	learn: 0.2271629	total: 50.8s	remaining: 1m 29s
361:	learn: 0.2270163	total: 50.9s	remaining: 1m 29s
362:	learn: 0.2268864	total: 51.1s	remaining: 1m 29s
363:	learn: 0.2267665	total: 51.2s	remaining: 1m 29s
364:	learn: 0.2266397	total: 51.4s	remaining: 1m 29s
365: 366:	learn: 0.2265112 learn: 0.2263782	total: 51.5s total: 51.7s	remaining: 1m 29s remaining: 1m 29s
365: 367:	learn: 0.2262417	total: 51.75 total: 51.8s	remaining: 1m 29s remaining: 1m 28s
50/:	160111. 0.220241/	10141. 31.05	I GIII TIIR TIII 782

368:	leann	0.2261104	total:	51 Qc	remaining:	1 m	28c
369:		0.2259921	total:		remaining:		
370:		0.2258595	total:		remaining:		
370. 371:		0.2257219	total:		remaining:		
371:		0.2255983	total:		remaining:		
372. 373:		0.2254570	total:		remaining:		28s
373. 374:		0.2253232	total:		remaining:		
374. 375:			total:		_		
		0.2251906			remaining:		
376:		0.2250554	total:		remaining:		
377:		0.2249243	total:		remaining:		
378:		0.2247909	total:		remaining:		27s
379:		0.2246547	total:		remaining:		
380:		0.2245137	total:		remaining:		
381:		0.2243918	total:		remaining:		
382:		0.2242552	total:		remaining:		
383:		0.2241212	total:		remaining:		
384:		0.2239839	total:		remaining:		26s
385:		0.2238590	total:		remaining:		
386:		0.2237387	total:		remaining:		26s
387:		0.2236099	total:		remaining:		
388:	learn:	0.2234748	total:	54.8s	remaining:		26s
389:	learn:	0.2233545	total:	54.9s	remaining:		25s
390:	learn:	0.2232379	total:	55.1s	remaining:	1 m	25s
391:	learn:	0.2231073	total:	55.3s	remaining:	1 m	25s
392:	learn:	0.2229766	total:	55.4s	remaining:	1 m	25s
393:	learn:	0.2228428	total:	55.6s	remaining:	1 m	25s
394:	learn:	0.2227290	total:	55.8s	remaining:	1 m	25s
395:	learn:	0.2226021	total:	55 . 9s	remaining:	1 m	25s
396:	learn:	0.2224776	total:	56.1s	remaining:	1 m	25s
397:	learn:	0.2223652	total:	56.2s	remaining:	1 m	24s
398:	learn:	0.2222485	total:	56.3s	remaining:	1 m	24s
399:	learn:	0.2221225	total:	56.5s	remaining:	1 m	24s
400:	learn:	0.2219918	total:	56.6s	remaining:	1 m	24s
401:	learn:	0.2218597	total:	56.7s	remaining:	1 m	24s
402:	learn:	0.2217315	total:	56.9s	remaining:	1 m	24s
403:	learn:	0.2216176	total:	57s	remaining:	1 m	24s
404:	learn:	0.2215040	total:	57.2s	remaining:		
405:	learn:	0.2213768	total:	57.3s	remaining:		
406:	learn:	0.2212572	total:	57.4s	remaining:		
407:		0.2211371	total:		remaining:		
408:		0.2210168	total:		remaining:		23s
409:		0.2208996	total:		remaining:		
410:		0.2207897	total:		remaining:		
411:		0.2206753	total:		remaining:		
412:		0.2205495	total:		remaining:		
413:		0.2204204	total:		remaining:		22s
414:		0.2203037	total:		remaining:		
415:		0.2201792	total:		remaining:		
416:		0.2200556	total:		remaining:		
417:		0.2199233	total:		remaining:		
418:		0.2198181	total:		remaining:		21s
419:		0.2197059	total:		remaining:		
420:		0.2195873	total:		remaining:		
420: 421:		0.2194671	total:		remaining:		
421:		0.2193427	total:		remaining:		
423:		0.2192356	total:		remaining:		
423: 424:		0.2191238	total:		remaining:		
424. 425:		0.2190025	total:		remaining:		
425. 426:		0.2188830	total:		remaining:		
420.	TGUIII:	0.2100030	cocal:	TIII	i ciliatiitiik:	ΤIII	203

427.	loann, 0 2197671	+o+o]. 1m	nomaining: 1m 20c
427:	learn: 0.2187671	total: 1m	remaining: 1m 20s
428:	learn: 0.2186422	total: 1m	remaining: 1m 20s
429:	learn: 0.2185174	total: 1m	remaining: 1m 20s
430:	learn: 0.2184097	total: 1m	remaining: 1m 20s
431:	learn: 0.2183034	total: 1m	remaining: 1m 20s
432:	learn: 0.2181979	total: 1m	remaining: 1m 19s
433:	learn: 0.2180667	total: 1m 1s	remaining: 1m 19s
434:	learn: 0.2179473	total: 1m 1s	remaining: 1m 19s
435:	learn: 0.2178249	total: 1m 1s	remaining: 1m 19s
436:	learn: 0.2177039	total: 1m 1s	remaining: 1m 19s
437:	learn: 0.2176052	total: 1m 1s	remaining: 1m 19s
438:	learn: 0.2174758	total: 1m 1s	remaining: 1m 19s
439:	learn: 0.2173705	total: 1m 1s	remaining: 1m 18s
440:	learn: 0.2172514	total: 1m 2s	remaining: 1m 18s
441:	learn: 0.2171301	total: 1m 2s	remaining: 1m 18s
442:	learn: 0.2170073	total: 1m 2s	remaining: 1m 18s
443:	learn: 0.2169002	total: 1m 2s	remaining: 1m 18s
444:	learn: 0.2167760	total: 1m 2s	remaining: 1m 18s
445:	learn: 0.2166581	total: 1m 2s	remaining: 1m 17s
446:	learn: 0.2165543	total: 1m 2s	remaining: 1m 17s
447:	learn: 0.2164316	total: 1m 3s	remaining: 1m 17s
448:	learn: 0.2163128	total: 1m 3s	remaining: 1m 17s
449:	learn: 0.2162031	total: 1m 3s	remaining: 1m 17s
450:	learn: 0.2160941	total: 1m 3s	remaining: 1m 17s
451:	learn: 0.2159905	total: 1m 3s	remaining: 1m 17s
452:	learn: 0.2158761	total: 1m 3s	remaining: 1m 16s
452: 453:	learn: 0.2157546	total: 1m 3s	remaining: 1m 16s
455: 454:	learn: 0.2156395	total: 1m 4s	remaining: 1m 16s
454. 455:	learn: 0.2155394	total: 1m 4s	remaining: 1m 16s
			<u> </u>
456:	learn: 0.2154266	total: 1m 4s	remaining: 1m 16s remaining: 1m 16s
457:	learn: 0.2153104	total: 1m 4s	O
458:	learn: 0.2151989	total: 1m 4s	remaining: 1m 16s
459:	learn: 0.2150750	total: 1m 4s	remaining: 1m 15s
460:	learn: 0.2149546	total: 1m 4s	remaining: 1m 15s
461:	learn: 0.2148335	total: 1m 5s	remaining: 1m 15s
462:	learn: 0.2147313	total: 1m 5s	remaining: 1m 15s
463:	learn: 0.2146088	total: 1m 5s	remaining: 1m 15s
464:	learn: 0.2144970	total: 1m 5s	remaining: 1m 15s
465:	learn: 0.2143746	total: 1m 5s	remaining: 1m 15s
466:	learn: 0.2142706	total: 1m 5s	remaining: 1m 14s
467:	learn: 0.2141478	total: 1m 5s	remaining: 1m 14s
468:	learn: 0.2140459	total: 1m 5s	remaining: 1m 14s
469:	learn: 0.2139319	total: 1m 6s	remaining: 1m 14s
470:	learn: 0.2138369	total: 1m 6s	remaining: 1m 14s
471:	learn: 0.2137259	total: 1m 6s	remaining: 1m 14s
472:	learn: 0.2136314	total: 1m 6s	remaining: 1m 14s
473:	learn: 0.2135114	total: 1m 6s	remaining: 1m 14s
474:	learn: 0.2134014	total: 1m 6s	remaining: 1m 13s
475:	learn: 0.2132930	total: 1m 7s	remaining: 1m 13s
476:	learn: 0.2131750	total: 1m 7s	remaining: 1m 13s
477:	learn: 0.2130699	total: 1m 7s	remaining: 1m 13s
478:	learn: 0.2129688	total: 1m 7s	remaining: 1m 13s
479:	learn: 0.2128596	total: 1m 7s	remaining: 1m 13s
480:	learn: 0.2127549	total: 1m 7s	remaining: 1m 13s
481:	learn: 0.2126538	total: 1m 7s	remaining: 1m 12s
482:	learn: 0.2125561	total: 1m 7s	remaining: 1m 12s
483:	learn: 0.2124254	total: 1m 8s	remaining: 1m 12s
484:	learn: 0.2123249	total: 1m 8s	remaining: 1m 12s
485:	learn: 0.2123243	total: 1m 8s	remaining: 1m 12s
40).	TC0111. 0.4144013	cocar. III 05	i ciliatilitiik. IIII 122

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486:
                                 total: 1m 8s
                                                   remaining: 1m 12s
        learn: 0.2120841
                                                   remaining: 1m 12s
487:
        learn: 0.2119767
                                 total: 1m 8s
488:
                                 total: 1m 8s
                                                   remaining: 1m 11s
        learn: 0.2118741
                                                   remaining: 1m 11s
489:
        learn: 0.2117727
                                 total: 1m 8s
490:
        learn: 0.2116633
                                 total: 1m 9s
                                                   remaining: 1m 11s
491:
        learn: 0.2115545
                                 total: 1m 9s
                                                   remaining: 1m 11s
492:
        learn: 0.2114543
                                 total: 1m 9s
                                                   remaining: 1m 11s
                                                   remaining: 1m 11s
493:
        learn: 0.2113440
                                 total: 1m 9s
494:
        learn: 0.2112219
                                 total: 1m 9s
                                                   remaining: 1m 11s
495:
        learn: 0.2111102
                                 total: 1m 9s
                                                   remaining: 1m 11s
496:
        learn: 0.2110021
                                 total: 1m 10s
                                                   remaining: 1m 10s
497:
                                 total: 1m 10s
        learn: 0.2109055
                                                   remaining: 1m 10s
498:
        learn: 0.2107993
                                 total: 1m 10s
                                                   remaining: 1m 10s
499:
                                 total: 1m 10s
        learn: 0.2106981
                                                   remaining: 1m 10s
                                 total: 1m 10s
                                                   remaining: 1m 10s
500:
        learn: 0.2105954
                                                   remaining: 1m 10s
501:
        learn: 0.2104778
                                 total: 1m 10s
502:
        learn: 0.2103756
                                 total: 1m 10s
                                                   remaining: 1m 10s
503:
        learn: 0.2102628
                                 total: 1m 11s
                                                   remaining: 1m 9s
                                 total: 1m 11s
504:
        learn: 0.2101655
                                                   remaining: 1m 9s
505:
        learn: 0.2100741
                                 total: 1m 11s
                                                   remaining: 1m 9s
506:
        learn: 0.2099715
                                 total: 1m 11s
                                                   remaining: 1m 9s
                                 total: 1m 11s
507:
        learn: 0.2098754
                                                   remaining: 1m 9s
508:
        learn: 0.2097617
                                 total: 1m 11s
                                                   remaining: 1m 9s
509:
        learn: 0.2096542
                                 total: 1m 12s
                                                   remaining: 1m 9s
510:
                                 total: 1m 12s
        learn: 0.2095502
                                                   remaining: 1m 9s
                                 total: 1m 12s
511:
        learn: 0.2094439
                                                   remaining: 1m 9s
512:
        learn: 0.2093385
                                 total: 1m 12s
                                                   remaining: 1m 8s
513:
                                 total: 1m 12s
        learn: 0.2092328
                                                   remaining: 1m 8s
514:
        learn: 0.2091364
                                 total: 1m 12s
                                                   remaining: 1m 8s
515:
        learn: 0.2090307
                                 total: 1m 12s
                                                   remaining: 1m 8s
516:
        learn: 0.2089393
                                 total: 1m 13s
                                                   remaining: 1m 8s
                                                   remaining: 1m 8s
517:
        learn: 0.2088396
                                 total: 1m 13s
518:
        learn: 0.2087478
                                 total: 1m 13s
                                                   remaining: 1m 8s
519:
        learn: 0.2086390
                                 total: 1m 13s
                                                   remaining: 1m 7s
520:
        learn: 0.2085503
                                 total: 1m 13s
                                                   remaining: 1m 7s
521:
                                 total: 1m 13s
        learn: 0.2084336
                                                   remaining: 1m 7s
522:
                                 total: 1m 13s
        learn: 0.2083307
                                                   remaining: 1m 7s
523:
                                 total: 1m 14s
                                                   remaining: 1m 7s
        learn: 0.2082286
                                 total: 1m 14s
524:
        learn: 0.2081267
                                                   remaining: 1m 7s
525:
                                 total: 1m 14s
                                                   remaining: 1m 7s
        learn: 0.2080217
526:
        learn: 0.2079247
                                 total: 1m 14s
                                                   remaining: 1m 6s
527:
        learn: 0.2078324
                                 total: 1m 14s
                                                   remaining: 1m 6s
528:
        learn: 0.2077316
                                 total: 1m 14s
                                                   remaining: 1m 6s
529:
        learn: 0.2076283
                                 total: 1m 15s
                                                   remaining: 1m 6s
        learn: 0.2075215
                                                   remaining: 1m 6s
530:
                                 total: 1m 15s
531:
        learn: 0.2074218
                                 total: 1m 15s
                                                   remaining: 1m 6s
532:
        learn: 0.2073263
                                 total: 1m 15s
                                                   remaining: 1m 6s
                                 total: 1m 15s
533:
        learn: 0.2072396
                                                   remaining: 1m 5s
534:
                                 total: 1m 15s
        learn: 0.2071423
                                                   remaining: 1m 5s
        learn: 0.2070371
535:
                                 total: 1m 15s
                                                   remaining: 1m 5s
536:
        learn: 0.2069416
                                 total: 1m 16s
                                                   remaining: 1m 5s
537:
        learn: 0.2068382
                                 total: 1m 16s
                                                   remaining: 1m 5s
538:
        learn: 0.2067389
                                 total: 1m 16s
                                                   remaining: 1m 5s
539:
        learn: 0.2066414
                                 total: 1m 16s
                                                   remaining: 1m 5s
540:
        learn: 0.2065379
                                 total: 1m 16s
                                                   remaining: 1m 5s
                                 total: 1m 16s
541:
        learn: 0.2064342
                                                   remaining: 1m 4s
542:
        learn: 0.2063518
                                 total: 1m 16s
                                                   remaining: 1m 4s
543:
        learn: 0.2062636
                                 total: 1m 17s
                                                   remaining: 1m 4s
544:
        learn: 0.2061473
                                 total: 1m 17s
                                                   remaining: 1m 4s
```

```
545:
                                 total: 1m 17s
                                                   remaining: 1m 4s
        learn: 0.2060531
546:
        learn: 0.2059420
                                 total: 1m 17s
                                                   remaining: 1m 4s
547:
                                 total: 1m 17s
                                                   remaining: 1m 4s
        learn: 0.2058523
                                 total: 1m 17s
                                                   remaining: 1m 3s
548:
        learn: 0.2057402
549:
        learn: 0.2056417
                                 total: 1m 17s
                                                   remaining: 1m 3s
550:
        learn: 0.2055397
                                 total: 1m 18s
                                                   remaining: 1m 3s
551:
        learn: 0.2054540
                                 total: 1m 18s
                                                   remaining: 1m 3s
                                                   remaining: 1m 3s
552:
                                 total: 1m 18s
        learn: 0.2053631
553:
        learn: 0.2052565
                                 total: 1m 18s
                                                   remaining: 1m 3s
554:
        learn: 0.2051636
                                 total: 1m 18s
                                                   remaining: 1m 3s
555:
        learn: 0.2050771
                                 total: 1m 18s
                                                   remaining: 1m 2s
                                 total: 1m 18s
556:
        learn: 0.2049855
                                                   remaining: 1m 2s
557:
        learn: 0.2048958
                                 total: 1m 19s
                                                   remaining: 1m 2s
558:
                                 total: 1m 19s
        learn: 0.2048088
                                                   remaining: 1m 2s
                                 total: 1m 19s
                                                   remaining: 1m 2s
559:
        learn: 0.2047156
560:
                                 total: 1m 19s
        learn: 0.2046148
                                                   remaining: 1m 2s
                                 total: 1m 19s
561:
        learn: 0.2045247
                                                   remaining: 1m 2s
562:
        learn: 0.2044310
                                 total: 1m 19s
                                                   remaining: 1m 1s
                                 total: 1m 19s
563:
        learn: 0.2043289
                                                   remaining: 1m 1s
564:
        learn: 0.2042362
                                 total: 1m 20s
                                                   remaining: 1m 1s
565:
        learn: 0.2041436
                                 total: 1m 20s
                                                   remaining: 1m 1s
                                 total: 1m 20s
566:
        learn: 0.2040506
                                                   remaining: 1m 1s
                                                   remaining: 1m 1s
567:
        learn: 0.2039567
                                 total: 1m 20s
                                 total: 1m 20s
568:
        learn: 0.2038743
                                                   remaining: 1m 1s
                                 total: 1m 20s
569:
        learn: 0.2037889
                                                   remaining: 1m
                                 total: 1m 20s
570:
        learn: 0.2037023
                                                   remaining: 1m
571:
        learn: 0.2036008
                                 total: 1m 21s
                                                   remaining: 1m
572:
                                 total: 1m 21s
        learn: 0.2034954
                                                   remaining: 1m
573:
        learn: 0.2034047
                                 total: 1m 21s
                                                   remaining: 1m
                                                   remaining: 1m
574:
        learn: 0.2033039
                                 total: 1m 21s
575:
        learn: 0.2032043
                                 total: 1m 21s
                                                   remaining: 1m
576:
        learn: 0.2031075
                                 total: 1m 21s
                                                   remaining: 59.9s
                                 total: 1m 21s
577:
        learn: 0.2030153
                                                   remaining: 59.8s
578:
        learn: 0.2029239
                                 total: 1m 22s
                                                   remaining: 59.6s
579:
        learn: 0.2028253
                                 total: 1m 22s
                                                   remaining: 59.5s
                                 total: 1m 22s
580:
        learn: 0.2027263
                                                   remaining: 59.4s
                                 total: 1m 22s
581:
        learn: 0.2026374
                                                   remaining: 59.2s
582:
                                 total: 1m 22s
        learn: 0.2025368
                                                   remaining: 59.1s
                                 total: 1m 22s
583:
        learn: 0.2024490
                                                   remaining: 58.9s
        learn: 0.2023468
                                 total: 1m 22s
584:
                                                   remaining: 58.8s
585:
        learn: 0.2022436
                                 total: 1m 23s
                                                   remaining: 58.6s
586:
        learn: 0.2021554
                                 total: 1m 23s
                                                   remaining: 58.5s
587:
        learn: 0.2020653
                                 total: 1m 23s
                                                   remaining: 58.4s
                                                   remaining: 58.2s
588:
        learn: 0.2019795
                                 total: 1m 23s
589:
        learn: 0.2018814
                                 total: 1m 23s
                                                   remaining: 58.1s
590:
        learn: 0.2017773
                                 total: 1m 23s
                                                   remaining: 58s
591:
        learn: 0.2016706
                                 total: 1m 23s
                                                   remaining: 57.8s
                                 total: 1m 24s
592:
        learn: 0.2015644
                                                   remaining: 57.7s
593:
                                 total: 1m 24s
                                                   remaining: 57.5s
        learn: 0.2014781
594:
                                 total: 1m 24s
        learn: 0.2013873
                                                   remaining: 57.4s
595:
                                                   remaining: 57.2s
        learn: 0.2012953
                                 total: 1m 24s
596:
        learn: 0.2012100
                                 total: 1m 24s
                                                   remaining: 57.1s
597:
        learn: 0.2011295
                                 total: 1m 24s
                                                   remaining: 57s
598:
        learn: 0.2010279
                                 total: 1m 24s
                                                   remaining: 56.8s
599:
        learn: 0.2009234
                                 total: 1m 25s
                                                   remaining: 56.7s
                                 total: 1m 25s
600:
        learn: 0.2008207
                                                   remaining: 56.6s
601:
        learn: 0.2007250
                                 total: 1m 25s
                                                   remaining: 56.4s
602:
        learn: 0.2006315
                                 total: 1m 25s
                                                   remaining: 56.3s
603:
        learn: 0.2005571
                                 total: 1m 25s
                                                   remaining: 56.2s
```

```
604:
                                  total: 1m 25s
                                                   remaining: 56s
        learn: 0.2004612
605:
        learn: 0.2003784
                                  total: 1m 25s
                                                   remaining: 55.9s
                                                   remaining: 55.7s
                                  total: 1m 26s
606:
        learn: 0.2002789
                                  total: 1m 26s
607:
        learn: 0.2001834
                                                   remaining: 55.6s
608:
        learn: 0.2000921
                                  total: 1m 26s
                                                   remaining: 55.4s
609:
        learn: 0.1999889
                                  total: 1m 26s
                                                   remaining: 55.3s
        learn: 0.1999077
                                  total: 1m 26s
610:
                                                   remaining: 55.2s
                                  total: 1m 26s
611:
        learn: 0.1998371
                                                   remaining: 55.1s
612:
        learn: 0.1997523
                                  total: 1m 27s
                                                   remaining: 54.9s
613:
        learn: 0.1996597
                                  total: 1m 27s
                                                   remaining: 54.8s
614:
        learn: 0.1995741
                                  total: 1m 27s
                                                   remaining: 54.7s
                                  total: 1m 27s
615:
        learn: 0.1994806
                                                   remaining: 54.6s
        learn: 0.1993914
                                  total: 1m 27s
                                                   remaining: 54.4s
616:
                                  total: 1m 27s
617:
        learn: 0.1993126
                                                   remaining: 54.3s
                                  total: 1m 27s
618:
        learn: 0.1992261
                                                   remaining: 54.2s
619:
        learn: 0.1991376
                                  total: 1m 28s
                                                   remaining: 54s
620:
        learn: 0.1990479
                                  total: 1m 28s
                                                   remaining: 53.9s
                                                   remaining: 53.7s
621:
        learn: 0.1989616
                                  total: 1m 28s
                                  total: 1m 28s
622:
        learn: 0.1988787
                                                   remaining: 53.6s
623:
        learn: 0.1987877
                                  total: 1m 28s
                                                   remaining: 53.4s
624:
        learn: 0.1987063
                                  total: 1m 28s
                                                   remaining: 53.3s
                                                   remaining: 53.2s
625:
        learn: 0.1986214
                                  total: 1m 28s
                                                   remaining: 53s
626:
        learn: 0.1985384
                                  total: 1m 29s
627:
        learn: 0.1984516
                                  total: 1m 29s
                                                   remaining: 52.9s
628:
                                  total: 1m 29s
        learn: 0.1983639
                                                   remaining: 52.7s
629:
                                  total: 1m 29s
                                                   remaining: 52.6s
        learn: 0.1982927
630:
        learn: 0.1981990
                                  total: 1m 29s
                                                   remaining: 52.5s
631:
                                  total: 1m 29s
        learn: 0.1981001
                                                   remaining: 52.3s
632:
        learn: 0.1980074
                                  total: 1m 30s
                                                   remaining: 52.2s
                                                   remaining: 52.1s
633:
        learn: 0.1979187
                                  total: 1m 30s
634:
        learn: 0.1978396
                                  total: 1m 30s
                                                   remaining: 51.9s
635:
        learn: 0.1977495
                                  total: 1m 30s
                                                   remaining: 51.8s
636:
        learn: 0.1976711
                                  total: 1m 30s
                                                   remaining: 51.7s
637:
        learn: 0.1975814
                                  total: 1m 30s
                                                   remaining: 51.5s
638:
        learn: 0.1974904
                                  total: 1m 30s
                                                   remaining: 51.4s
639:
                                  total: 1m 31s
        learn: 0.1974267
                                                   remaining: 51.2s
                                  total: 1m 31s
640:
        learn: 0.1973523
                                                   remaining: 51.1s
                                  total: 1m 31s
641:
        learn: 0.1972692
                                                   remaining: 51s
                                  total: 1m 31s
642:
                                                   remaining: 50.8s
        learn: 0.1971777
643:
                                  total: 1m 31s
        learn: 0.1970846
                                                   remaining: 50.7s
644:
                                  total: 1m 31s
        learn: 0.1970102
                                                   remaining: 50.5s
645:
        learn: 0.1969287
                                  total: 1m 31s
                                                   remaining: 50.4s
646:
        learn: 0.1968524
                                  total: 1m 32s
                                                   remaining: 50.2s
                                                   remaining: 50.1s
647:
        learn: 0.1967695
                                  total: 1m 32s
648:
                                  total: 1m 32s
        learn: 0.1966868
                                                   remaining: 50s
649:
        learn: 0.1965875
                                  total: 1m 32s
                                                   remaining: 49.8s
650:
        learn: 0.1964949
                                  total: 1m 32s
                                                   remaining: 49.7s
                                  total: 1m 32s
651:
        learn: 0.1964123
                                                   remaining: 49.5s
                                  total: 1m 32s
                                                   remaining: 49.4s
652:
        learn: 0.1963257
                                  total: 1m 33s
653:
        learn: 0.1962232
                                                   remaining: 49.3s
654:
        learn: 0.1961332
                                  total: 1m 33s
                                                   remaining: 49.1s
655:
                                  total: 1m 33s
        learn: 0.1960564
                                                   remaining: 49s
656:
        learn: 0.1959565
                                  total: 1m 33s
                                                   remaining: 48.8s
657:
        learn: 0.1958617
                                  total: 1m 33s
                                                   remaining: 48.7s
658:
        learn: 0.1957693
                                  total: 1m 33s
                                                   remaining: 48.6s
                                  total: 1m 33s
659:
        learn: 0.1956948
                                                   remaining: 48.4s
660:
        learn: 0.1956175
                                  total: 1m 34s
                                                   remaining: 48.3s
661:
        learn: 0.1955352
                                  total: 1m 34s
                                                   remaining: 48.1s
662:
        learn: 0.1954765
                                  total: 1m 34s
                                                   remaining: 48s
```

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663:
        learn: 0.1953895
                                  total: 1m 34s
                                                   remaining: 47.8s
                                                   remaining: 47.7s
664:
        learn: 0.1953136
                                  total: 1m 34s
                                                   remaining: 47.5s
665:
                                  total: 1m 34s
        learn: 0.1952443
                                  total: 1m 34s
666:
        learn: 0.1951733
                                                   remaining: 47.4s
667:
        learn: 0.1950987
                                  total: 1m 35s
                                                   remaining: 47.3s
668:
        learn: 0.1950233
                                  total: 1m 35s
                                                   remaining: 47.1s
                                                   remaining: 47s
669:
        learn: 0.1949447
                                  total: 1m 35s
                                  total: 1m 35s
670:
        learn: 0.1948671
                                                   remaining: 46.8s
671:
        learn: 0.1947992
                                  total: 1m 35s
                                                   remaining: 46.7s
672:
        learn: 0.1947168
                                  total: 1m 35s
                                                   remaining: 46.5s
673:
        learn: 0.1946412
                                  total: 1m 35s
                                                   remaining: 46.4s
                                  total: 1m 36s
674:
        learn: 0.1945461
                                                   remaining: 46.2s
675:
        learn: 0.1944637
                                  total: 1m 36s
                                                   remaining: 46.1s
                                  total: 1m 36s
676:
        learn: 0.1943795
                                                   remaining: 46s
                                  total: 1m 36s
677:
        learn: 0.1942990
                                                   remaining: 45.8s
                                  total: 1m 36s
678:
        learn: 0.1942282
                                                   remaining: 45.7s
                                  total: 1m 36s
679:
        learn: 0.1941463
                                                   remaining: 45.5s
                                                   remaining: 45.4s
680:
        learn: 0.1940604
                                  total: 1m 36s
681:
        learn: 0.1939766
                                  total: 1m 37s
                                                   remaining: 45.2s
682:
        learn: 0.1938981
                                  total: 1m 37s
                                                   remaining: 45.1s
683:
        learn: 0.1938270
                                  total: 1m 37s
                                                   remaining: 45s
684:
        learn: 0.1937400
                                  total: 1m 37s
                                                   remaining: 44.8s
685:
        learn: 0.1936636
                                  total: 1m 37s
                                                   remaining: 44.7s
686:
        learn: 0.1935830
                                  total: 1m 37s
                                                   remaining: 44.5s
                                  total: 1m 37s
687:
        learn: 0.1935066
                                                   remaining: 44.4s
                                  total: 1m 38s
688:
        learn: 0.1934194
                                                   remaining: 44.3s
                                                   remaining: 44.1s
689:
        learn: 0.1933347
                                  total: 1m 38s
690:
                                  total: 1m 38s
        learn: 0.1932467
                                                   remaining: 44s
691:
        learn: 0.1931785
                                  total: 1m 38s
                                                   remaining: 43.8s
692:
        learn: 0.1931044
                                  total: 1m 38s
                                                   remaining: 43.7s
693:
        learn: 0.1930332
                                  total: 1m 38s
                                                   remaining: 43.5s
694:
        learn: 0.1929670
                                  total: 1m 38s
                                                   remaining: 43.4s
                                  total: 1m 39s
695:
        learn: 0.1928889
                                                   remaining: 43.3s
696:
        learn: 0.1927950
                                  total: 1m 39s
                                                   remaining: 43.1s
697:
        learn: 0.1927033
                                  total: 1m 39s
                                                   remaining: 43s
698:
                                  total: 1m 39s
        learn: 0.1926271
                                                   remaining: 42.8s
                                  total: 1m 39s
699:
        learn: 0.1925430
                                                   remaining: 42.7s
700:
                                  total: 1m 39s
        learn: 0.1924630
                                                   remaining: 42.5s
701:
                                  total: 1m 39s
        learn: 0.1923903
                                                   remaining: 42.4s
702:
                                  total: 1m 40s
                                                   remaining: 42.2s
        learn: 0.1923159
703:
                                  total: 1m 40s
        learn: 0.1922235
                                                   remaining: 42.1s
704:
        learn: 0.1921310
                                  total: 1m 40s
                                                   remaining: 42s
705:
        learn: 0.1920534
                                  total: 1m 40s
                                                   remaining: 41.8s
                                                   remaining: 41.7s
706:
        learn: 0.1919665
                                  total: 1m 40s
        learn: 0.1918849
707:
                                  total: 1m 40s
                                                   remaining: 41.5s
708:
        learn: 0.1917960
                                  total: 1m 40s
                                                   remaining: 41.4s
709:
        learn: 0.1917051
                                  total: 1m 41s
                                                   remaining: 41.3s
                                  total: 1m 41s
710:
        learn: 0.1916388
                                                   remaining: 41.1s
711:
                                  total: 1m 41s
                                                   remaining: 41s
        learn: 0.1915616
712:
        learn: 0.1914830
                                  total: 1m 41s
                                                   remaining: 40.8s
713:
        learn: 0.1913885
                                  total: 1m 41s
                                                   remaining: 40.7s
714:
        learn: 0.1913091
                                  total: 1m 41s
                                                   remaining: 40.6s
715:
        learn: 0.1912238
                                  total: 1m 41s
                                                   remaining: 40.4s
716:
        learn: 0.1911553
                                  total: 1m 42s
                                                   remaining: 40.3s
717:
        learn: 0.1910880
                                  total: 1m 42s
                                                   remaining: 40.1s
                                  total: 1m 42s
                                                   remaining: 40s
718:
        learn: 0.1909994
719:
        learn: 0.1909165
                                  total: 1m 42s
                                                   remaining: 39.8s
720:
        learn: 0.1908404
                                  total: 1m 42s
                                                   remaining: 39.7s
721:
        learn: 0.1907598
                                  total: 1m 42s
                                                   remaining: 39.6s
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722: learn: 0.1906879 total: Im 42s remaining: 39.5s 723: learn: 0.1906359 total: Im 43s remaining: 39.2s 726: learn: 0.1904538 total: Im 43s remaining: 39.1s 727: learn: 0.1902937 total: Im 43s remaining: 38.9s 727: learn: 0.1902937 total: Im 43s remaining: 38.8s 728: learn: 0.1901444 total: Im 44s remaining: 38.5s 730: learn: 0.190777 total: Im 44s remaining: 38.2s 731: learn: 0.1899238 total: Im 44s remaining: 38.2s 732: learn: 0.1899238 total: Im 44s remaining: 37.8s 733: learn: 0.189709 total: Im 44s remaining: 37.8s 734: learn: 0.189709 total: Im 44s remaining: 37.6s 735: learn: 0.189743 total: Im 44s remaining: 37.6s 736: learn: 0.1896434 total: Im 45s remaining: 37.4s 737: learn: 0.189740 total: Im 45s remaining: 37.4s 738: learn: 0.189544 total: Im 45s remaining: 37.4s 739: learn: 0.189254 total: Im 45s remaining: 37.1s 741: learn: 0.189045 total:		1 0 10010=0			
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780: learn: 0.1864441 total: 1m 51s remaining: 31.2s				•	
	780:	learn: 0.1864441	total: 1m 51s	remaining: 31	L.2s

781:	learn: 0.1863646	total: 1m 51s	remaining:	31s
782:	learn: 0.1862905	total: 1m 51s	remaining:	30.9s
783:	learn: 0.1862172	total: 1m 51s	remaining:	30.8s
784:	learn: 0.1861381	total: 1m 51s	_	30.6s
785:	learn: 0.1860639	total: 1m 51s		30.5s
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786:	learn: 0.1859777	total: 1m 52s		30.3s
787:	learn: 0.1859064	total: 1m 52s		30.2s
788:	learn: 0.1858130	total: 1m 52s	remaining:	30.1s
789:	learn: 0.1857323	total: 1m 52s	remaining:	29.9s
790:	learn: 0.1856624	total: 1m 52s	remaining:	29.8s
791:	learn: 0.1855960	total: 1m 52s	•	29.6s
792:	learn: 0.1855284	total: 1m 52s	•	29.5s
			_	
793:	learn: 0.1854583	total: 1m 53s		29.3s
794:	learn: 0.1854013	total: 1m 53s	_	29.2s
795:	learn: 0.1853262	total: 1m 53s	remaining:	29.1s
796:	learn: 0.1852625	total: 1m 53s	remaining:	28.9s
797:	learn: 0.1851812	total: 1m 53s	remaining:	28.8s
798:	learn: 0.1851090	total: 1m 53s	_	28.6s
799:	learn: 0.1850395	total: 1m 53s	•	28.5s
800:	learn: 0.1849542	total: 1m 54s	remaining:	
801:		total: 1m 54s	_	28.25
			•	
802:	learn: 0.1848087	total: 1m 54s	_	28.1s
803:	learn: 0.1847405	total: 1m 54s		27.9s
804:	learn: 0.1846766	total: 1m 54s	remaining:	27.8s
805:	learn: 0.1846021	total: 1m 54s	remaining:	27.6s
806:	learn: 0.1845249	total: 1m 54s	remaining:	27.5s
807:	learn: 0.1844411	total: 1m 55s	remaining:	27.4s
808:	learn: 0.1843828	total: 1m 55s	_	27.2s
809:	learn: 0.1843080	total: 1m 55s	_	27.1s
810:	learn: 0.1842468	total: 1m 55s	•	26.9s
811:	learn: 0.1841759	total: 1m 55s		26.8s
			•	
812:	learn: 0.1841011	total: 1m 55s	remaining:	
813:	learn: 0.1840284	total: 1m 55s	remaining:	
814:	learn: 0.1839613	total: 1m 56s	remaining:	
815:	learn: 0.1838767	total: 1m 56s	remaining:	26.2s
816:	learn: 0.1837875	total: 1m 56s	remaining:	26.1s
817:	learn: 0.1837212	total: 1m 56s	remaining:	25.9s
818:	learn: 0.1836415	total: 1m 56s	remaining:	25.8s
819:	learn: 0.1835784	total: 1m 56s	remaining:	
820:	learn: 0.1835055	total: 1m 56s	•	25.5s
821:	learn: 0.1834248	total: 1m 57s	remaining:	
	learn: 0.1833536	total: 1m 57s	remaining:	
822:			•	
823:	learn: 0.1832828	total: 1m 57s	•	25.1s
824:	learn: 0.1832217	total: 1m 57s	remaining:	
825:	learn: 0.1831595	total: 1m 57s	•	24.8s
826:	learn: 0.1830916	total: 1m 57s	remaining:	24.6s
827:	learn: 0.1830121	total: 1m 57s	remaining:	24.5s
828:	learn: 0.1829349	total: 1m 58s	remaining:	24.4s
829:	learn: 0.1828730	total: 1m 58s	remaining:	
830:	learn: 0.1828043	total: 1m 58s	remaining:	
831:	learn: 0.1827342	total: 1m 58s	_	23.9s
	learn: 0.1826722	total: 1m 58s	_	
832:			remaining:	
833:	learn: 0.1825993	total: 1m 58s	remaining:	
834:	learn: 0.1825326	total: 1m 59s	remaining:	
835:	learn: 0.1824603	total: 1m 59s	remaining:	
836:	learn: 0.1823853	total: 1m 59s		23.2s
837:	learn: 0.1823073	total: 1m 59s	remaining:	23.1s
838:	learn: 0.1822485	total: 1m 59s	remaining:	23s
839:	learn: 0.1821812	total: 1m 59s	remaining:	
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840:	learn: 0.1820957	total: 1m 59s	remaining:	22.7s
841:	learn: 0.1820308	total: 2m	remaining:	22.5s
842:	learn: 0.1819721	total: 2m	remaining:	22.4s
843:	learn: 0.1818980	total: 2m	remaining:	22.3s
844:	learn: 0.1818299	total: 2m	remaining:	22.1s
845:	learn: 0.1817522	total: 2m	remaining:	22s
846:	learn: 0.1816875	total: 2m	remaining:	
847:	learn: 0.1816276	total: 2m	remaining:	
848:	learn: 0.1815603	total: 2m 1s	remaining:	
849:	learn: 0.1814763	total: 2m 1s	remaining:	
850:	learn: 0.1814176	total: 2m 1s	remaining:	
851:	learn: 0.1813498	total: 2m 1s	remaining:	
852:	learn: 0.1812948	total: 2m 1s	remaining:	
853:	learn: 0.1812224	total: 2m 1s	remaining:	
854:	learn: 0.1811630	total: 2m 1s	remaining:	
855:	learn: 0.1810872	total: 2m 2s	remaining:	
856:	learn: 0.1810172	total: 2m 2s	remaining:	20.35
		total: 2m 2s	_	
857:	learn: 0.1809566		remaining:	
858:	learn: 0.1808773	total: 2m 2s	remaining:	
859:	learn: 0.1808219	total: 2m 2s	remaining:	
860:	learn: 0.1807534	total: 2m 2s	remaining:	
861:	learn: 0.1806942	total: 2m 2s	remaining:	19.7s
862:	learn: 0.1806213	total: 2m 3s	remaining:	
863:	learn: 0.1805566	total: 2m 3s	remaining:	19.4s
864:	learn: 0.1804928	total: 2m 3s	remaining:	
865:	learn: 0.1804309	total: 2m 3s	remaining:	
866:	learn: 0.1803583	total: 2m 3s	remaining:	19s
867:	learn: 0.1802952	total: 2m 3s	remaining:	
868:	learn: 0.1802411	total: 2m 3s	remaining:	
869:	learn: 0.1801691	total: 2m 4s	remaining:	
870:	learn: 0.1800932	total: 2m 4s	remaining:	18.4s
871:	learn: 0.1800236	total: 2m 4s	remaining:	18.3s
872:	learn: 0.1799594	total: 2m 4s	remaining:	18.1s
873:	learn: 0.1798925	total: 2m 4s	remaining:	18s
874:	learn: 0.1798286	total: 2m 4s	remaining:	17.8s
875:	learn: 0.1797519	total: 2m 4s	remaining:	17.7s
876:	learn: 0.1796886	total: 2m 5s	remaining:	17.5s
877:	learn: 0.1796226	total: 2m 5s	remaining:	17.4s
878:	learn: 0.1795444	total: 2m 5s	remaining:	17.3s
879:	learn: 0.1794872	total: 2m 5s	remaining:	17.1s
880:	learn: 0.1794350	total: 2m 5s	remaining:	17s
881:	learn: 0.1793721	total: 2m 5s	remaining:	16.8s
882:	learn: 0.1793010	total: 2m 5s	remaining:	16.7s
883:	learn: 0.1792422	total: 2m 6s	remaining:	16.5s
884:	learn: 0.1791740	total: 2m 6s	remaining:	16.4s
885:	learn: 0.1791094	total: 2m 6s	remaining:	16.3s
886:	learn: 0.1790423	total: 2m 6s	remaining:	16.1s
887:	learn: 0.1789599	total: 2m 6s	remaining:	16s
888:	learn: 0.1789018	total: 2m 6s	remaining:	15.8s
889:	learn: 0.1788404	total: 2m 6s	remaining:	15.7s
890:	learn: 0.1787603	total: 2m 7s	remaining:	15.5s
891:	learn: 0.1786935	total: 2m 7s	remaining:	15.4s
892:	learn: 0.1786323	total: 2m 7s	remaining:	15.3s
893:	learn: 0.1785578	total: 2m 7s	remaining:	15.1s
894:	learn: 0.1784957	total: 2m 7s	remaining:	15s
895:	learn: 0.1784293	total: 2m 7s	remaining:	14.8s
896:	learn: 0.1783689	total: 2m 8s	remaining:	14.7s
897:	learn: 0.1783112	total: 2m 8s	remaining:	14.6s
898:	learn: 0.1782491	total: 2m 8s	remaining:	
	••			

```
899:
                                  total: 2m 8s
                                                   remaining: 14.3s
        learn: 0.1781824
900:
        learn: 0.1781209
                                  total: 2m 8s
                                                   remaining: 14.1s
901:
                                  total: 2m 8s
                                                   remaining: 14s
        learn: 0.1780509
902:
                                  total: 2m 8s
        learn: 0.1779889
                                                   remaining: 13.8s
903:
        learn: 0.1779353
                                  total: 2m 9s
                                                   remaining: 13.7s
904:
        learn: 0.1778539
                                  total: 2m 9s
                                                   remaining: 13.6s
                                  total: 2m 9s
                                                   remaining: 13.4s
905:
        learn: 0.1777916
                                  total: 2m 9s
906:
        learn: 0.1777272
                                                   remaining: 13.3s
907:
        learn: 0.1776687
                                  total: 2m 9s
                                                   remaining: 13.1s
908:
        learn: 0.1775980
                                  total: 2m 9s
                                                   remaining: 13s
909:
        learn: 0.1775257
                                  total: 2m 9s
                                                   remaining: 12.8s
910:
        learn: 0.1774682
                                  total: 2m 9s
                                                   remaining: 12.7s
911:
        learn: 0.1774123
                                  total: 2m 10s
                                                   remaining: 12.6s
912:
                                  total: 2m 10s
        learn: 0.1773535
                                                   remaining: 12.4s
                                  total: 2m 10s
913:
        learn: 0.1772914
                                                   remaining: 12.3s
                                  total: 2m 10s
914:
        learn: 0.1772255
                                                   remaining: 12.1s
915:
        learn: 0.1771692
                                  total: 2m 10s
                                                   remaining: 12s
                                                   remaining: 11.8s
916:
        learn: 0.1771092
                                  total: 2m 10s
        learn: 0.1770383
                                  total: 2m 10s
917:
                                                   remaining: 11.7s
918:
        learn: 0.1770000
                                  total: 2m 11s
                                                   remaining: 11.6s
919:
        learn: 0.1769386
                                  total: 2m 11s
                                                   remaining: 11.4s
920:
        learn: 0.1768732
                                  total: 2m 11s
                                                   remaining: 11.3s
921:
        learn: 0.1768011
                                  total: 2m 11s
                                                   remaining: 11.1s
922:
        learn: 0.1767414
                                  total: 2m 11s
                                                   remaining: 11s
923:
                                  total: 2m 11s
        learn: 0.1766877
                                                   remaining: 10.8s
924:
                                  total: 2m 11s
        learn: 0.1766312
                                                   remaining: 10.7s
925:
        learn: 0.1765620
                                  total: 2m 12s
                                                   remaining: 10.6s
926:
                                  total: 2m 12s
        learn: 0.1764895
                                                   remaining: 10.4s
927:
        learn: 0.1764254
                                  total: 2m 12s
                                                   remaining: 10.3s
928:
        learn: 0.1763600
                                  total: 2m 12s
                                                   remaining: 10.1s
929:
        learn: 0.1762926
                                  total: 2m 12s
                                                   remaining: 9.99s
930:
        learn: 0.1762224
                                  total: 2m 12s
                                                   remaining: 9.85s
931:
        learn: 0.1761609
                                  total: 2m 13s
                                                   remaining: 9.71s
932:
        learn: 0.1760985
                                  total: 2m 13s
                                                   remaining: 9.56s
                                  total: 2m 13s
933:
        learn: 0.1760285
                                                   remaining: 9.42s
934:
                                  total: 2m 13s
                                                   remaining: 9.28s
        learn: 0.1759657
                                  total: 2m 13s
935:
        learn: 0.1759031
                                                   remaining: 9.13s
        learn: 0.1758399
936:
                                  total: 2m 13s
                                                   remaining: 8.99s
                                  total: 2m 13s
937:
                                                   remaining: 8.85s
        learn: 0.1757711
938:
                                  total: 2m 14s
        learn: 0.1757086
                                                   remaining: 8.71s
939:
        learn: 0.1756344
                                  total: 2m 14s
                                                   remaining: 8.56s
940:
        learn: 0.1755772
                                  total: 2m 14s
                                                   remaining: 8.42s
941:
        learn: 0.1755136
                                  total: 2m 14s
                                                   remaining: 8.28s
942:
        learn: 0.1754604
                                  total: 2m 14s
                                                   remaining: 8.14s
943:
                                  total: 2m 14s
        learn: 0.1753896
                                                   remaining: 8s
944:
        learn: 0.1753390
                                  total: 2m 14s
                                                   remaining: 7.86s
945:
        learn: 0.1752826
                                  total: 2m 15s
                                                   remaining: 7.71s
946:
        learn: 0.1752247
                                  total: 2m 15s
                                                   remaining: 7.57s
947:
                                  total: 2m 15s
        learn: 0.1751423
                                                   remaining: 7.43s
                                  total: 2m 15s
948:
        learn: 0.1750827
                                                   remaining: 7.29s
                                                   remaining: 7.14s
949:
        learn: 0.1750233
                                  total: 2m 15s
950:
        learn: 0.1749638
                                  total: 2m 15s
                                                   remaining: 7s
951:
        learn: 0.1748943
                                  total: 2m 16s
                                                   remaining: 6.86s
952:
        learn: 0.1748252
                                  total: 2m 16s
                                                   remaining: 6.72s
953:
        learn: 0.1747623
                                  total: 2m 16s
                                                   remaining: 6.57s
                                  total: 2m 16s
954:
        learn: 0.1747029
                                                   remaining: 6.43s
955:
        learn: 0.1746279
                                  total: 2m 16s
                                                   remaining: 6.29s
956:
        learn: 0.1745704
                                  total: 2m 16s
                                                   remaining: 6.14s
                                  total: 2m 16s
957:
        learn: 0.1745077
                                                   remaining: 6s
```

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958:
        learn: 0.1744330
                                 total: 2m 17s
                                                  remaining: 5.86s
959:
        learn: 0.1743655
                                 total: 2m 17s
                                                  remaining: 5.72s
960:
                                 total: 2m 17s
                                                  remaining: 5.57s
        learn: 0.1743142
                                 total: 2m 17s
961:
        learn: 0.1742392
                                                  remaining: 5.43s
962:
        learn: 0.1741794
                                 total: 2m 17s
                                                  remaining: 5.29s
963:
        learn: 0.1741208
                                 total: 2m 17s
                                                  remaining: 5.14s
964:
        learn: 0.1740264
                                 total: 2m 17s
                                                  remaining: 5s
965:
        learn: 0.1739676
                                 total: 2m 18s
                                                  remaining: 4.86s
966:
        learn: 0.1739067
                                 total: 2m 18s
                                                  remaining: 4.72s
967:
        learn: 0.1738454
                                 total: 2m 18s
                                                  remaining: 4.57s
968:
        learn: 0.1737946
                                 total: 2m 18s
                                                  remaining: 4.43s
                                 total: 2m 18s
969:
        learn: 0.1737365
                                                  remaining: 4.29s
970:
        learn: 0.1736611
                                 total: 2m 18s
                                                  remaining: 4.14s
971:
                                 total: 2m 18s
        learn: 0.1736066
                                                  remaining: 4s
972:
                                 total: 2m 19s
        learn: 0.1735412
                                                  remaining: 3.86s
973:
        learn: 0.1734779
                                 total: 2m 19s
                                                  remaining: 3.71s
974:
        learn: 0.1734203
                                 total: 2m 19s
                                                  remaining: 3.57s
                                                  remaining: 3.43s
975:
        learn: 0.1733623
                                 total: 2m 19s
976:
        learn: 0.1733052
                                 total: 2m 19s
                                                  remaining: 3.29s
977:
        learn: 0.1732420
                                 total: 2m 19s
                                                  remaining: 3.14s
978:
        learn: 0.1731911
                                 total: 2m 19s
                                                  remaining: 3s
979:
        learn: 0.1731238
                                 total: 2m 20s
                                                  remaining: 2.86s
980:
        learn: 0.1730541
                                 total: 2m 20s
                                                  remaining: 2.71s
                                 total: 2m 20s
981:
        learn: 0.1729909
                                                  remaining: 2.57s
982:
                                 total: 2m 20s
        learn: 0.1729308
                                                  remaining: 2.43s
                                 total: 2m 20s
983:
        learn: 0.1728598
                                                  remaining: 2.29s
984:
        learn: 0.1727885
                                 total: 2m 20s
                                                  remaining: 2.14s
985:
                                 total: 2m 20s
        learn: 0.1727340
                                                  remaining: 2s
986:
        learn: 0.1726718
                                 total: 2m 21s
                                                  remaining: 1.86s
987:
        learn: 0.1726113
                                 total: 2m 21s
                                                  remaining: 1.71s
988:
        learn: 0.1725484
                                 total: 2m 21s
                                                  remaining: 1.57s
989:
        learn: 0.1724939
                                 total: 2m 21s
                                                  remaining: 1.43s
990:
        learn: 0.1724326
                                 total: 2m 21s
                                                  remaining: 1.28s
991:
        learn: 0.1723685
                                 total: 2m 21s
                                                  remaining: 1.14s
992:
        learn: 0.1723049
                                 total: 2m 21s
                                                  remaining: 1s
993:
                                 total: 2m 22s
                                                  remaining: 857ms
        learn: 0.1722425
                                 total: 2m 22s
994:
        learn: 0.1721835
                                                  remaining: 714ms
995:
                                 total: 2m 22s
        learn: 0.1721211
                                                  remaining: 571ms
                                 total: 2m 22s
996:
        learn: 0.1720581
                                                  remaining: 429ms
                                                  remaining: 286ms
997:
                                 total: 2m 22s
        learn: 0.1720019
998:
                                 total: 2m 22s
        learn: 0.1719327
                                                  remaining: 143ms
999:
        learn: 0.1718917
                                 total: 2m 22s
                                                  remaining: Ous
      learning_rate=0.03, 12_leaf_reg=3, iterations=1000, depth=8, ctr_b
[CV]
order count=200, border count=50, score=0.8902568956704022, total= 2.5mi
n
[CV] learning_rate=0.3, 12_leaf_reg=5, iterations=250, depth=9, ctr_bord
er count=5, border count=50
0:
        learn: 0.4763581
                                 total: 197ms
                                                  remaining: 49.1s
1:
        learn: 0.3845401
                                 total: 393ms
                                                  remaining: 48.7s
2:
        learn: 0.3398117
                                 total: 581ms
                                                  remaining: 47.9s
                                                  remaining: 47.4s
3:
                                 total: 770ms
        learn: 0.3159644
4:
        learn: 0.3027099
                                 total: 944ms
                                                  remaining: 46.2s
5:
        learn: 0.2933673
                                 total: 1.11s
                                                  remaining: 45.2s
6:
        learn: 0.2869382
                                 total: 1.29s
                                                  remaining: 44.8s
                                 total: 1.46s
7:
        learn: 0.2815354
                                                  remaining: 44.1s
8:
        learn: 0.2771469
                                 total: 1.62s
                                                  remaining: 43.3s
9:
        learn: 0.2727960
                                 total: 1.79s
                                                  remaining: 42.9s
10:
        learn: 0.2694533
                                 total: 1.95s
                                                  remaining: 42.4s
11:
        learn: 0.2661062
                                 total: 2.13s
                                                  remaining: 42.2s
```

12: learn: 0.2599326					
14: learn: 0.2572447 total: 2.63s remaining: 41.3s 15: learn: 0.2540555 total: 2.81s remaining: 40.8s 17: learn: 0.2495625 total: 3.16s remaining: 40.8s 18: learn: 0.24467607 total: 3.35s remaining: 40.6s 19: learn: 0.24418230 total: 3.73s remaining: 40.6s 20: learn: 0.2379509 total: 3.92s remaining: 40.6s 21: learn: 0.2360584 total: 4.69s remaining: 40.2s 22: learn: 0.2341050 total: 4.6s remaining: 40.2s 23: learn: 0.2322104 total: 4.7s remaining: 39.5s 24: learn: 0.2341050 total: 4.9s remaining: 39.5s 25: learn: 0.228677 total: 5.37s remaining: 39.5s 26: learn: 0.22269484 total: 5.37s remaining: 39.4s 29: learn: 0.2235029 total: 5.7s remaining: 39.4s 30: learn: 0.2246605 total: 5.92s remaining: 38.9s 32: learn: 0.22604605 total: 6.29s remaini	12:	learn: 0.2629730	total: 2.29s	remaining:	41.7s
14: learn: 0.2572447 total: 2.63s remaining: 41.3s 15: learn: 0.2540555 total: 2.81s remaining: 40.8s 17: learn: 0.2495625 total: 3.16s remaining: 40.8s 18: learn: 0.24467607 total: 3.35s remaining: 40.6s 19: learn: 0.24418230 total: 3.73s remaining: 40.6s 20: learn: 0.2379509 total: 3.92s remaining: 40.6s 21: learn: 0.2360584 total: 4.69s remaining: 40.2s 22: learn: 0.2341050 total: 4.6s remaining: 40.2s 23: learn: 0.2322104 total: 4.7s remaining: 39.5s 24: learn: 0.2341050 total: 4.9s remaining: 39.5s 25: learn: 0.228677 total: 5.37s remaining: 39.5s 26: learn: 0.22269484 total: 5.37s remaining: 39.4s 29: learn: 0.2235029 total: 5.7s remaining: 39.4s 30: learn: 0.2246605 total: 5.92s remaining: 38.9s 32: learn: 0.22604605 total: 6.29s remaini	13:	learn: 0.2598926	total: 2.46s	_	
15: learn: 0.2545055 total: 2.81s remaining: 40.85 remaining: 40.65 remaining: 40.25 remain				_	
16: learn: 0.2520214 total: 2.98s remaining: 40.8s 17: learn: 0.2495625 total: 3.16s remaining: 40.8s 18: learn: 0.24467667 total: 3.35s remaining: 40.7s 19: learn: 0.2444414 total: 3.53s remaining: 40.6s 20: learn: 0.23497862 total: 3.73s remaining: 40.6s 21: learn: 0.2379509 total: 3.92s remaining: 40.6s 22: learn: 0.2379509 total: 4.09s remaining: 40.5s 23: learn: 0.2360584 total: 4.27s remaining: 40.2s 24: learn: 0.2341050 total: 4.65s remaining: 40.2s 25: learn: 0.2322104 total: 4.65s remaining: 39.9s 26: learn: 0.2322104 total: 4.79s remaining: 39.6s 27: learn: 0.2288077 total: 4.98s remaining: 39.5s 28: learn: 0.2253406 total: 5.37s remaining: 39.5s 28: learn: 0.2253406 total: 5.37s remaining: 39.4s 30: learn: 0.2253409 total: 5.55s remaining: 39.4s 30: learn: 0.2222237 total: 5.74s remaining: 39.2s 31: learn: 0.2222237 total: 5.74s remaining: 39.1s 32: learn: 0.2222237 total: 5.92s remaining: 39.5s 33: learn: 0.2160707 total: 6.47s remaining: 38.8s 34: learn: 0.2160707 total: 6.47s remaining: 38.8s 36: learn: 0.2160707 total: 6.67s remaining: 38.4s 36: learn: 0.2146413 total: 6.65s remaining: 38.3s 37: learn: 0.2146413 total: 6.65s remaining: 38.3s 38: learn: 0.2146413 total: 7.22s remaining: 37.5s 40: learn: 0.2067324 total: 7.22s remaining: 37.5s 40: learn: 0.207941 total: 7.25s remaining: 37.5s 41: learn: 0.2067325 total: 7.78s remaining: 37.6s 42: learn: 0.2067325 total: 7.8s remaining: 37.6s 44: learn: 0.2067325 total: 7.9s remaining: 37.5s 44: learn: 0.2093378 total: 7.9s remaining: 37.5s 45: learn: 0.1994346 total: 8.33s remaining: 37.5s 46: learn: 0.1994345 total: 8.35s remaining: 37.5s 47: learn: 0.1994355 total: 7.9s remaining: 37.5s 48: learn: 0.1994364 total: 8.9s remaining: 37.5s 49: learn: 0.1984346 total: 8.9s remaining: 37.5s 40: learn: 0.1984346 total: 8.9s remaining: 37.5s 41: learn: 0.1984346 total: 8.9s remaining: 37.5s 42: learn: 0.1984346 total: 9.0s remaining: 37.5s 44: learn: 0.1984346 total: 9.0s remaining: 37.5s 45: learn: 0.1984365 total: 9.0s remaining: 33.4s 46: learn: 0.198				•	
17: learn: 0.2495625 total: 3.16s remaining: 40.8s learn: 0.24467607 total: 3.35s remaining: 40.6s remaining: 40.3s remaining: 40.3s remaining: 40.3s remaining: 40.2s remaining: 4				_	
18: learn: 0.24474014 total: 3.53s remaining: 40.7s 20: learn: 0.2418230 total: 3.73s remaining: 40.6s 21: learn: 0.2397862 total: 3.92s remaining: 40.6s 22: learn: 0.2379509 total: 4.09s remaining: 40.2s 23: learn: 0.2360584 total: 4.46s remaining: 40.2s 25: learn: 0.2341050 total: 4.63s remaining: 40.2s 26: learn: 0.235401 total: 4.63s remaining: 39.5s 27: learn: 0.2258407 total: 4.98s remaining: 39.5s 28: learn: 0.225406 total: 5.78s remaining: 39.5s 29: learn: 0.2253406 total: 5.74s remaining: 39.5s 29: learn: 0.2222237 total: 5.74s remaining: 39.1s 31: learn: 0.224605 total: 5.74s remaining: 39.1s 32: learn: 0.224665 total: 6.29s remaining: 38.9s 33: learn: 0.2175346 total: 6.29s remaining: 38.4s 36: learn: 0.2146413 total: 6.47s remaining				_	
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69: learn: 0.1788761 total: 12.9s remaining: 33.1s				_	
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70: learn: 0.1780269 total: 13s remaining: 32.9s	69:	learn: 0.1788761	total: 12.9s	remaining:	33.1s
	70:	learn: 0.1780269	total: 13s	remaining:	32.9s

71:	learn: 0.1772562	+o+o], 12 2c	nomaining	22 76
		total: 13.2s	remaining:	
72:	learn: 0.1764898	total: 13.4s	remaining:	
73:	learn: 0.1756672	total: 13.7s	remaining:	
74:	learn: 0.1747687	total: 13.9s	remaining:	
75:	learn: 0.1736377	total: 14.2s	remaining:	
76:	learn: 0.1727677	total: 14.4s	remaining:	
77:	learn: 0.1720525	total: 14.6s	remaining:	32.2s
78:	learn: 0.1712107	total: 14.8s	remaining:	32s
79:	learn: 0.1702947	total: 15s	remaining:	31.8s
80:	learn: 0.1696264	total: 15.2s	remaining:	31.6s
81:	learn: 0.1688169	total: 15.3s	remaining:	31.4s
82:	learn: 0.1679762	total: 15.5s	remaining:	
83:	learn: 0.1673636	total: 15.7s	remaining:	
84:	learn: 0.1665616	total: 15.9s	remaining:	
85:	learn: 0.1656774	total: 16.1s	remaining:	
86:	learn: 0.1647878	total: 16.3s	remaining:	
87:	learn: 0.1640904	total: 16.5s	remaining:	
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88:	learn: 0.1633866	total: 16.6s	remaining:	
89:	learn: 0.1626482	total: 16.8s	remaining:	
90:	learn: 0.1616929	total: 17s	remaining:	
91:	learn: 0.1610839	total: 17.2s	remaining:	
92:	learn: 0.1603069	total: 17.4s	remaining:	
93:	learn: 0.1594854	total: 17.6s	remaining:	
94:	learn: 0.1586222	total: 17.8s	remaining:	29s
95:	learn: 0.1578035	total: 18s	remaining:	28.9s
96:	learn: 0.1569658	total: 18.2s	remaining:	28.7s
97:	learn: 0.1563502	total: 18.4s	remaining:	28.5s
98:	learn: 0.1557049	total: 18.6s	remaining:	
99:	learn: 0.1549722	total: 18.7s	remaining:	
100:	learn: 0.1541888	total: 18.9s	remaining:	
101:	learn: 0.1535276	total: 19.1s	remaining:	
102:	learn: 0.1527504	total: 19.3s	remaining:	
102:	learn: 0.1520982	total: 19.5s	remaining:	
103:	learn: 0.1514067	total: 19.7s	remaining:	
			0	
105:	learn: 0.1506065	total: 19.9s	remaining:	
106:	learn: 0.1499348	total: 20.1s	remaining:	
107:	learn: 0.1492341	total: 20.2s	remaining:	
108:	learn: 0.1484826	total: 20.4s	remaining:	
109:	learn: 0.1478366	total: 20.6s	remaining:	
110:	learn: 0.1469978	total: 20.8s	remaining:	26.1s
111:	learn: 0.1465209	total: 21s	remaining:	25.9s
112:	learn: 0.1458897	total: 21.2s	remaining:	25.7s
113:	learn: 0.1452644	total: 21.4s	remaining:	25.5s
114:	learn: 0.1448509	total: 21.5s	remaining:	25.3s
115:	learn: 0.1444213	total: 21.7s	remaining:	
116:	learn: 0.1438567	total: 21.9s	remaining:	
117:	learn: 0.1431281	total: 22.1s	remaining:	
118:	learn: 0.1424331	total: 22.3s	remaining:	
119:	learn: 0.1417146	total: 22.5s	remaining:	
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120:	learn: 0.1412248	total: 22.6s	remaining:	
121:	learn: 0.1405766	total: 22.8s	remaining:	
122:	learn: 0.1401070	total: 23s	remaining:	
123:	learn: 0.1394499	total: 23.2s	remaining:	
124:	learn: 0.1389886	total: 23.3s	remaining:	
125:	learn: 0.1386782	total: 23.5s	remaining:	
126:	learn: 0.1381903	total: 23.7s	remaining:	22.9s
127:	learn: 0.1376420	total: 23.9s	remaining:	22.8s
128:	learn: 0.1371412	total: 24.1s	remaining:	22.6s
129:	learn: 0.1366805	total: 24.2s	remaining:	

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165:learn:0.1192715total:31sremaining:15.7s166:learn:0.1186973total:31.2sremaining:15.5s167:learn:0.1182618total:31.3sremaining:15.3s168:learn:0.1178339total:31.5sremaining:15.1s169:learn:0.1168726total:31.7sremaining:14.9s170:learn:0.1168726total:31.9sremaining:14.7s171:learn:0.1164593total:32.1sremaining:14.5s172:learn:0.1160835total:32.3sremaining:14.4s173:learn:0.1156808total:32.4sremaining:14.2s174:learn:0.1152521total:32.6sremaining:14.s175:learn:0.1147263total:32.8sremaining:13.8s176:learn:0.1147263total:33.2sremaining:13.4s178:learn:0.1133935total:33.2sremaining:13.4s179:learn:0.1129915total:33.4sremaining:13.1s180:learn:0.1125939total:33.8sremaining:12.7s182:learn:0.1117997total:34.1sremaining:12.7s183:learn:0.1107474total:34.4sremaining:12.1s186:learn:0.1103533 <t< td=""><td></td><td></td><td></td><td>_</td><td></td></t<>				_	
166:learn:0.1186973total:31.2sremaining:15.5s167:learn:0.1182618total:31.3sremaining:15.3s168:learn:0.1178339total:31.5sremaining:15.1s169:learn:0.1168726total:31.7sremaining:14.9s170:learn:0.1168726total:31.9sremaining:14.7s171:learn:0.1164593total:32.1sremaining:14.5s172:learn:0.1160835total:32.3sremaining:14.4s173:learn:0.1156808total:32.4sremaining:14.2s174:learn:0.1152521total:32.6sremaining:14.s175:learn:0.1147263total:32.8sremaining:13.8s176:learn:0.1147263total:33.2sremaining:13.6s177:learn:0.1137466total:33.2sremaining:13.4s178:learn:0.1129915total:33.4sremaining:13.1s180:learn:0.1125939total:33.8sremaining:12.7s182:learn:0.1117997total:34.1sremaining:12.5s183:learn:0.1107474total:34.4sremaining:12.1s185:learn:0.1103533total:34.8sremaining:11.7s187:learn:0.1099702				_	
167:learn:0.1182618total:31.3sremaining:15.3s168:learn:0.1178339total:31.5sremaining:15.1s169:learn:0.1168726total:31.7sremaining:14.9s170:learn:0.1168726total:31.9sremaining:14.7s171:learn:0.1164593total:32.1sremaining:14.5s172:learn:0.1160835total:32.3sremaining:14.5s173:learn:0.1156808total:32.4sremaining:14.2s174:learn:0.1152521total:32.6sremaining:14.s175:learn:0.1147263total:32.8sremaining:13.8s176:learn:0.1147547total:33.sremaining:13.4s177:learn:0.1137466total:33.2sremaining:13.4s178:learn:0.1129915total:33.4sremaining:13.1s180:learn:0.1125939total:33.8sremaining:12.7s182:learn:0.1117997total:34.1sremaining:12.5s183:learn:0.1117944total:34.4sremaining:12.1s185:learn:0.1107474total:34.6sremaining:11.7s186:learn:0.1099702total:35sremaining:11.7s					
168:learn:0.1178339total:31.5sremaining:15.1s169:learn:0.1173095total:31.7sremaining:14.9s170:learn:0.1168726total:31.9sremaining:14.7s171:learn:0.1164593total:32.1sremaining:14.5s172:learn:0.1160835total:32.3sremaining:14.4s173:learn:0.1156808total:32.4sremaining:14.2s174:learn:0.1147263total:32.8sremaining:13.8s176:learn:0.1147263total:32.8sremaining:13.6s177:learn:0.1137466total:33.2sremaining:13.4s178:learn:0.1133935total:33.4sremaining:13.2s179:learn:0.1129915total:33.4sremaining:13.1s180:learn:0.1125939total:33.8sremaining:12.7s181:learn:0.1117997total:34.1sremaining:12.5s183:learn:0.1115842total:34.3sremaining:12.3s184:learn:0.1107474total:34.4sremaining:11.9s186:learn:0.1103533total:34.8sremaining:11.7s187:learn:0.1099702total:35sremaining:11.5s				•	
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170:learn:0.1168726total:31.9sremaining:14.7s171:learn:0.1164593total:32.1sremaining:14.5s172:learn:0.1160835total:32.3sremaining:14.4s173:learn:0.1156808total:32.4sremaining:14.2s174:learn:0.1152521total:32.6sremaining:14.s175:learn:0.1147263total:32.8sremaining:13.8s176:learn:0.1141547total:33.sremaining:13.6s177:learn:0.1137466total:33.2sremaining:13.4s178:learn:0.1139935total:33.4sremaining:13.2s179:learn:0.1129915total:33.6sremaining:13.1s180:learn:0.1125939total:33.8sremaining:12.9s181:learn:0.1122464total:33.9sremaining:12.7s182:learn:0.1117997total:34.1sremaining:12.5s183:learn:0.1115842total:34.3sremaining:12.5s184:learn:0.1107474total:34.4sremaining:11.9s186:learn:0.1099702total:35.sremaining:11.7s187:learn:0.1099702total:35.sremaining:11.5s				_	
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172:learn:0.1160835total:32.3sremaining:14.4s173:learn:0.1156808total:32.4sremaining:14.2s174:learn:0.1152521total:32.6sremaining:14s175:learn:0.1147263total:32.8sremaining:13.8s176:learn:0.1141547total:33sremaining:13.6s177:learn:0.1137466total:33.2sremaining:13.4s178:learn:0.1139915total:33.4sremaining:13.2s179:learn:0.1129915total:33.6sremaining:13.1s180:learn:0.1125939total:33.8sremaining:12.9s181:learn:0.1122464total:33.9sremaining:12.7s182:learn:0.1117997total:34.1sremaining:12.5s183:learn:0.1112794total:34.4sremaining:12.1s185:learn:0.1107474total:34.6sremaining:11.7s186:learn:0.1103533total:34.8sremaining:11.7s187:learn:0.1099702total:35sremaining:11.5s				•	
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175:learn:0.1147263total:32.8sremaining:13.8s176:learn:0.1141547total:33sremaining:13.6s177:learn:0.1137466total:33.2sremaining:13.4s178:learn:0.1133935total:33.4sremaining:13.2s179:learn:0.1129915total:33.6sremaining:13.1s180:learn:0.1125939total:33.8sremaining:12.9s181:learn:0.1122464total:33.9sremaining:12.7s182:learn:0.1117997total:34.1sremaining:12.5s183:learn:0.1115842total:34.3sremaining:12.3s184:learn:0.1112794total:34.4sremaining:12.1s185:learn:0.1107474total:34.6sremaining:11.7s186:learn:0.1099702total:35sremaining:11.5s	173:	learn: 0.1156808	total: 32.4s	remaining:	14.2s
176:learn:0.1141547total:33sremaining:13.6s177:learn:0.1137466total:33.2sremaining:13.4s178:learn:0.1133935total:33.4sremaining:13.2s179:learn:0.1129915total:33.6sremaining:13.1s180:learn:0.1125939total:33.8sremaining:12.9s181:learn:0.1122464total:33.9sremaining:12.7s182:learn:0.1117997total:34.1sremaining:12.5s183:learn:0.1115842total:34.3sremaining:12.3s184:learn:0.1112794total:34.4sremaining:12.1s185:learn:0.1107474total:34.6sremaining:11.7s186:learn:0.1103533total:34.8sremaining:11.7s187:learn:0.1099702total:35sremaining:11.5s	174:	learn: 0.1152521	total: 32.6s	remaining:	14s
177:learn:0.1137466total:33.2sremaining:13.4s178:learn:0.1133935total:33.4sremaining:13.2s179:learn:0.1129915total:33.6sremaining:13.1s180:learn:0.1125939total:33.8sremaining:12.9s181:learn:0.1122464total:33.9sremaining:12.7s182:learn:0.1117997total:34.1sremaining:12.5s183:learn:0.1115842total:34.3sremaining:12.3s184:learn:0.1107474total:34.4sremaining:12.1s185:learn:0.1107474total:34.6sremaining:11.7s186:learn:0.1103533total:34.8sremaining:11.7s187:learn:0.1099702total:35sremaining:11.5s	175:	learn: 0.1147263	total: 32.8s	remaining:	13.8s
177:learn:0.1137466total:33.2sremaining:13.4s178:learn:0.1133935total:33.4sremaining:13.2s179:learn:0.1129915total:33.6sremaining:13.1s180:learn:0.1125939total:33.8sremaining:12.9s181:learn:0.1122464total:33.9sremaining:12.7s182:learn:0.1117997total:34.1sremaining:12.5s183:learn:0.1115842total:34.3sremaining:12.3s184:learn:0.1107474total:34.4sremaining:12.1s185:learn:0.1107474total:34.6sremaining:11.7s186:learn:0.1103533total:34.8sremaining:11.7s187:learn:0.1099702total:35sremaining:11.5s	176:	learn: 0.1141547	total: 33s	remaining:	13.6s
178:learn:0.1133935total:33.4sremaining:13.2s179:learn:0.1129915total:33.6sremaining:13.1s180:learn:0.1125939total:33.8sremaining:12.9s181:learn:0.1122464total:33.9sremaining:12.7s182:learn:0.1117997total:34.1sremaining:12.5s183:learn:0.1115842total:34.3sremaining:12.3s184:learn:0.1112794total:34.4sremaining:12.1s185:learn:0.1107474total:34.6sremaining:11.9s186:learn:0.1103533total:34.8sremaining:11.7s187:learn:0.1099702total:35sremaining:11.5s		learn: 0.1137466	total: 33.2s	_	
179:learn:0.1129915total:33.6sremaining:13.1s180:learn:0.1125939total:33.8sremaining:12.9s181:learn:0.1122464total:33.9sremaining:12.7s182:learn:0.1117997total:34.1sremaining:12.5s183:learn:0.1115842total:34.3sremaining:12.3s184:learn:0.1112794total:34.4sremaining:12.1s185:learn:0.1107474total:34.6sremaining:11.9s186:learn:0.1103533total:34.8sremaining:11.7s187:learn:0.1099702total:35sremaining:11.5s				_	
180:learn:0.1125939total:33.8sremaining:12.9s181:learn:0.1122464total:33.9sremaining:12.7s182:learn:0.1117997total:34.1sremaining:12.5s183:learn:0.1115842total:34.3sremaining:12.3s184:learn:0.1112794total:34.4sremaining:12.1s185:learn:0.1107474total:34.6sremaining:11.9s186:learn:0.1103533total:34.8sremaining:11.7s187:learn:0.1099702total:35sremaining:11.5s				•	
181:learn: 0.1122464total: 33.9sremaining: 12.7s182:learn: 0.1117997total: 34.1sremaining: 12.5s183:learn: 0.1115842total: 34.3sremaining: 12.3s184:learn: 0.1112794total: 34.4sremaining: 12.1s185:learn: 0.1107474total: 34.6sremaining: 11.9s186:learn: 0.1103533total: 34.8sremaining: 11.7s187:learn: 0.1099702total: 35sremaining: 11.5s				_	
182:learn:0.1117997total:34.1sremaining:12.5s183:learn:0.1115842total:34.3sremaining:12.3s184:learn:0.1112794total:34.4sremaining:12.1s185:learn:0.1107474total:34.6sremaining:11.9s186:learn:0.1103533total:34.8sremaining:11.7s187:learn:0.1099702total:35sremaining:11.5s				•	
183:learn:0.1115842total:34.3sremaining:12.3s184:learn:0.1112794total:34.4sremaining:12.1s185:learn:0.1107474total:34.6sremaining:11.9s186:learn:0.1103533total:34.8sremaining:11.7s187:learn:0.1099702total:35sremaining:11.5s				•	
184:learn:0.1112794total:34.4sremaining:12.1s185:learn:0.1107474total:34.6sremaining:11.9s186:learn:0.1103533total:34.8sremaining:11.7s187:learn:0.1099702total:35sremaining:11.5s				_	
185:learn:0.1107474total:34.6sremaining:11.9s186:learn:0.1103533total:34.8sremaining:11.7s187:learn:0.1099702total:35sremaining:11.5s				•	
186:learn:0.1103533total:34.8sremaining:11.7s187:learn:0.1099702total:35sremaining:11.5s				_	
187: learn: 0.1099702 total: 35s remaining: 11.5s					
<u> </u>				_	
188: learn: 0.1095358 total: 35.2s remaining: 11.4s				•	
	188:	learn: 0.1095358	total: 35.2s	remaining:	11.4s

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189:	learn: 0.109	92324	total:	35.3s	remaining:	
190:	learn: 0.108	37529	total:	35.5s	remaining:	11s
191:	learn: 0.108	34466	total:	35.7s	remaining:	10.8s
192:	learn: 0.108	31436	total:	35.9s	remaining:	
193:	learn: 0.107		total:		remaining:	
194:	learn: 0.107		total:		_	
					remaining:	
195:	learn: 0.106		total:		remaining:	
196:	learn: 0.106		total:		remaining:	
197:	learn: 0.106	54628	total:	36.8s	remaining:	9.66s
198:	learn: 0.106	50598	total:	37s	remaining:	9.47s
199:	learn: 0.105	6204	total:	37.1s	remaining:	9.29s
200:	learn: 0.105	53748	total:	37.3s	remaining:	
201:	learn: 0.105		total:		remaining:	
202:	learn: 0.104		total:		remaining:	
202:	learn: 0.104				remaining:	
			total:		_	
204:	learn: 0.103		total:		remaining:	
205:	learn: 0.103		total:		remaining:	
206:	learn: 0.103	33435	total:	38.4s	remaining:	7.98s
207:	learn: 0.103	30922	total:	38.6s	remaining:	7.79s
208:	learn: 0.102	27909	total:	38.8s	remaining:	7.6s
209:	learn: 0.102	25006	total:	38.9s	remaining:	7.42s
210:	learn: 0.102	20909	total:	39.1s	remaining:	7.23s
211:	learn: 0.101		total:		remaining:	
212:	learn: 0.101		total:		remaining:	
212:					_	
	learn: 0.100		total:		remaining:	
214:	learn: 0.100		total:		remaining:	
215:	learn: 0.100		total:		remaining:	6.3s
216:	learn: 0.099		total:		remaining:	
217:	learn: 0.099	94969	total:	40.4s	remaining:	5.93s
218:	learn: 0.099	92555	total:	40.5s	remaining:	5.74s
219:	learn: 0.098	38039	total:	40.7s	remaining:	5.55s
220:	learn: 0.098	35407	total:	40.9s	remaining:	5.37s
221:	learn: 0.098	31585	total:		remaining:	
222:	learn: 0.097		total:		remaining:	
223:	learn: 0.097		total:		remaining:	
223:	learn: 0.097				_	
			total:		remaining:	
225:	learn: 0.096		total:		remaining:	
226:	learn: 0.096		total:		remaining:	
227:	learn: 0.096		total:		remaining:	
228:	learn: 0.096	50956	total:	42.3s	remaining:	3.88s
229:	learn: 0.095	57790	total:	42.5s	remaining:	3.7s
230:	learn: 0.095	55641	total:	42.7s	remaining:	3.51s
231:	learn: 0.095	52422	total:	42.8s	remaining:	3.32s
232:	learn: 0.094		total:		remaining:	
233:	learn: 0.094		total:		remaining:	
234:	learn: 0.094		total:		remaining:	
235:	learn: 0.093		total:		remaining:	
					_	
236:	learn: 0.093		total:		remaining:	
237:	learn: 0.093		total:		remaining:	
238:	learn: 0.092		total:		remaining:	
239:	learn: 0.092		total:		remaining:	
240:	learn: 0.092	22217	total:	44.5s	remaining:	1.66s
241:	learn: 0.092	20275	total:	44.6s	remaining:	1.48s
242:	learn: 0.091	L7616	total:	44.8s	remaining:	
243:	learn: 0.091		total:		remaining:	
244:	learn: 0.091		total:		remaining:	
245:	learn: 0.090		total:		remaining:	
243. 246:	learn: 0.096		total:		remaining:	
					_	
247:	learn: 0.090	741//	total:	45.85	remaining:	SMRac

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248:
        learn: 0.0901631
                                 total: 46s
                                                  remaining: 185ms
249:
        learn: 0.0898643
                                 total: 46.2s
                                                  remaining: Ous
[CV]
      learning_rate=0.3, 12_leaf_reg=5, iterations=250, depth=9, ctr_bor
der count=5, border count=50, score=0.8702315090826069, total= 53.2s
[CV] learning_rate=0.3, l2_leaf_reg=5, iterations=250, depth=9, ctr_bord
er_count=5, border_count=50
        learn: 0.4767828
                                 total: 200ms
                                                  remaining: 49.7s
0:
1:
        learn: 0.3838955
                                 total: 433ms
                                                  remaining: 53.7s
2:
        learn: 0.3374266
                                 total: 712ms
                                                  remaining: 58.6s
3:
        learn: 0.3147345
                                 total: 1.02s
                                                  remaining: 1m 2s
4:
        learn: 0.3017419
                                 total: 1.2s
                                                  remaining: 58.9s
5:
                                                  remaining: 55.9s
        learn: 0.2930009
                                 total: 1.37s
                                 total: 1.55s
6:
        learn: 0.2867193
                                                  remaining: 53.9s
7:
        learn: 0.2816003
                                 total: 1.74s
                                                  remaining: 52.8s
                                 total: 1.92s
8:
        learn: 0.2763518
                                                  remaining: 51.4s
9:
        learn: 0.2724151
                                 total: 2.08s
                                                  remaining: 49.9s
                                                  remaining: 48.9s
10:
        learn: 0.2683709
                                 total: 2.25s
                                 total: 2.42s
11:
        learn: 0.2648659
                                                  remaining: 48.1s
12:
        learn: 0.2619134
                                 total: 2.59s
                                                  remaining: 47.2s
13:
        learn: 0.2590075
                                 total: 2.77s
                                                  remaining: 46.6s
14:
        learn: 0.2563197
                                 total: 2.93s
                                                  remaining: 46s
15:
        learn: 0.2536788
                                 total: 3.14s
                                                  remaining: 45.9s
16:
        learn: 0.2506549
                                 total: 3.34s
                                                  remaining: 45.8s
17:
                                 total: 3.52s
        learn: 0.2484628
                                                  remaining: 45.3s
18:
        learn: 0.2456585
                                 total: 3.73s
                                                  remaining: 45.3s
                                                  remaining: 44.8s
19:
        learn: 0.2430379
                                 total: 3.9s
20:
        learn: 0.2408806
                                 total: 4.07s
                                                  remaining: 44.4s
21:
        learn: 0.2388870
                                 total: 4.24s
                                                  remaining: 44s
22:
        learn: 0.2370475
                                 total: 4.43s
                                                  remaining: 43.7s
                                                  remaining: 43.5s
23:
        learn: 0.2348099
                                 total: 4.62s
24:
        learn: 0.2328162
                                 total: 4.81s
                                                  remaining: 43.3s
25:
        learn: 0.2308952
                                 total: 5.01s
                                                  remaining: 43.1s
26:
        learn: 0.2288364
                                 total: 5.2s
                                                  remaining: 43s
27:
        learn: 0.2271498
                                 total: 5.43s
                                                  remaining: 43.1s
28:
        learn: 0.2256770
                                 total: 5.66s
                                                  remaining: 43.2s
29:
        learn: 0.2238277
                                 total: 5.91s
                                                  remaining: 43.3s
30:
        learn: 0.2224539
                                 total: 6.1s
                                                  remaining: 43.1s
31:
        learn: 0.2210827
                                 total: 6.3s
                                                  remaining: 42.9s
32:
                                                  remaining: 42.7s
        learn: 0.2195260
                                 total: 6.49s
33:
        learn: 0.2180250
                                 total: 6.69s
                                                  remaining: 42.5s
34:
        learn: 0.2165185
                                 total: 6.87s
                                                  remaining: 42.2s
35:
        learn: 0.2151487
                                 total: 7.04s
                                                  remaining: 41.9s
36:
        learn: 0.2137375
                                 total: 7.23s
                                                  remaining: 41.6s
37:
        learn: 0.2125664
                                 total: 7.41s
                                                  remaining: 41.3s
38:
        learn: 0.2111650
                                 total: 7.58s
                                                  remaining: 41s
                                 total: 7.77s
39:
        learn: 0.2095592
                                                  remaining: 40.8s
40:
        learn: 0.2083387
                                 total: 7.95s
                                                  remaining: 40.5s
41:
        learn: 0.2072707
                                 total: 8.13s
                                                  remaining: 40.3s
42:
        learn: 0.2059500
                                 total: 8.32s
                                                  remaining: 40.1s
43:
        learn: 0.2047271
                                 total: 8.5s
                                                  remaining: 39.8s
                                                  remaining: 39.6s
44:
        learn: 0.2035823
                                 total: 8.7s
45:
        learn: 0.2022660
                                 total: 8.88s
                                                  remaining: 39.4s
46:
        learn: 0.2010787
                                 total: 9.07s
                                                  remaining: 39.2s
47:
        learn: 0.1999597
                                 total: 9.25s
                                                  remaining: 38.9s
48:
        learn: 0.1987666
                                 total: 9.42s
                                                  remaining: 38.7s
49:
        learn: 0.1975800
                                 total: 9.59s
                                                  remaining: 38.4s
50:
        learn: 0.1964516
                                 total: 9.78s
                                                  remaining: 38.2s
51:
        learn: 0.1951524
                                 total: 9.97s
                                                  remaining: 38s
52:
        learn: 0.1939528
                                 total: 10.2s
                                                  remaining: 37.8s
```

53: learn: 0.1977292 total: 10.6s remaining: 37.6s 54: learn: 0.1908335 total: 10.6s remaining: 37.1s 55: learn: 0.1899618 total: 10.7s remaining: 36.9s 57: learn: 0.1879782 total: 11.1s remaining: 36.9s 58: learn: 0.1870392 total: 11.5s remaining: 36.5s 60: learn: 0.1861021 total: 11.6s remaining: 36.1s 61: learn: 0.1853326 total: 11.8s remaining: 35.8s 62: learn: 0.1844564 total: 12.2s remaining: 35.4s 63: learn: 0.18815527 total: 12.2s remaining: 35.4s 64: learn: 0.1881688 total: 12.2s remaining: 34.9s 66: learn: 0.1881688 total: 12.7s remaining: 34.9s 66: learn: 0.1881688 total: 12.7s remaining: 34.9s 66: learn: 0.18818768 total: 12.7s remaining: 34.9s 66: learn: 0.1786735 total: 12.7s remaining: 34.9s 67: learn: 0.179863 total: 13.4s remai					
55: learn: 0.1898918 total: 10.7s remaining: 37.1s 56: learn: 0.18899618 total: 11.9s remaining: 36.9s 57: learn: 0.1887982 total: 11.1s remaining: 36.7s 58: learn: 0.187982 total: 11.5s remaining: 36.3s 69: learn: 0.1883326 total: 11.5s remaining: 36.3s 60: learn: 0.183526 total: 12.s remaining: 35.4s 61: learn: 0.183527 total: 12.s remaining: 35.4s 63: learn: 0.1835527 total: 12.3s remaining: 35.1s 64: learn: 0.1818768 total: 12.7s remaining: 34.9s 66: learn: 0.181834 total: 12.7s remaining: 34.9s 66: learn: 0.1794664 total: 13.s remaining: 34.9s 67: learn: 0.1746735 total: 13.4s remaining: 34.2s 69: learn: 0.1771819 total: 13.4s remaining: 33.4s 71: learn: 0.1761364 total: 14.5s remaining: 33.4s 72: learn: 0.1763965 total: 14.5s remaining: 3	53:	learn: 0.1927292	total: 10.4s	remaining:	37.6s
55: learn: 0.1898918 total: 10.7s remaining: 37.1s 56: learn: 0.18899618 total: 11.9s remaining: 36.9s 57: learn: 0.1887982 total: 11.1s remaining: 36.7s 58: learn: 0.187982 total: 11.5s remaining: 36.3s 69: learn: 0.1883326 total: 11.5s remaining: 36.3s 60: learn: 0.183526 total: 12.s remaining: 35.4s 61: learn: 0.183527 total: 12.s remaining: 35.4s 63: learn: 0.1835527 total: 12.3s remaining: 35.1s 64: learn: 0.1818768 total: 12.7s remaining: 34.9s 66: learn: 0.181834 total: 12.7s remaining: 34.9s 66: learn: 0.1794664 total: 13.s remaining: 34.9s 67: learn: 0.1746735 total: 13.4s remaining: 34.2s 69: learn: 0.1771819 total: 13.4s remaining: 33.4s 71: learn: 0.1761364 total: 14.5s remaining: 33.4s 72: learn: 0.1763965 total: 14.5s remaining: 3	54:	learn: 0.1917465	total: 10.6s	remaining:	37.4s
56: Learn: 0.1889419 total: 10.9s remaining: 36.7s 57: learn: 0.1879782 total: 11.1s remaining: 36.7s 58: learn: 0.1870330 total: 11.5s remaining: 36.3s 60: learn: 0.1881021 total: 11.6s remaining: 36.3s 60: learn: 0.1844564 total: 12.5 remaining: 35.4s 62: learn: 0.184564 total: 12.5 remaining: 35.4s 63: learn: 0.1818768 total: 12.5s remaining: 35.4s 64: learn: 0.1818768 total: 12.7s remaining: 34.6s 66: learn: 0.1802093 total: 12.7s remaining: 34.6s 67: learn: 0.1794664 total: 13.5 remaining: 34.2s 68: learn: 0.179863 total: 13.4s remaining: 33.4s 69: learn: 0.1778635 total: 13.4s remaining: 33.6s 71: learn: 0.176364 total: 13.6s remaining: 33.4s 72: learn: 0.176366 total: 14.3s remaining: 33.4s 73: learn: 0.1743741 total: 14.3s remaining: 33	55:	learn: 0.1908335	total: 10.7s		
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59: learn: 0.1870330 total: 11.5s remaining: 36.3s 60: learn: 0.1863326 total: 11.6s remaining: 35.8s 62: learn: 0.1843564 total: 12.s remaining: 35.6s 62: learn: 0.184554 total: 12.s remaining: 35.4s 63: learn: 0.1818768 total: 12.3s remaining: 34.9s 66: learn: 0.1802093 total: 12.7s remaining: 34.6s 66: learn: 0.1794664 total: 13.s remaining: 34.6s 67: learn: 0.1794664 total: 13.cs remaining: 34.6s 68: learn: 0.1794664 total: 13.s remaining: 34.5s 69: learn: 0.1771819 total: 13.6s remaining: 33.8s 71: learn: 0.1771819 total: 13.8s remaining: 33.4s 72: learn: 0.1752806 total: 14.s remaining: 33.4s 73: learn: 0.1724974 total: 14.5s remaining: 32.9s 76: learn: 0.1724966 total: 14.5s remaining: 32.6s 77: learn: 0.1709943 total: 14.5s remaining: 3					
60: learn: 0.1861021 total: 11.6s remaining: 36.1s 61: learn: 0.1833226 total: 11.8s remaining: 35.6s 62: learn: 0.1834564 total: 12.5s remaining: 35.6s 63: learn: 0.1835527 total: 12.2s remaining: 35.4s 64: learn: 0.1827554 total: 12.3s remaining: 35.4s 65: learn: 0.1818768 total: 12.5s remaining: 34.9s 66: learn: 0.1818844 total: 12.7s remaining: 34.9s 66: learn: 0.18802093 total: 12.9s remaining: 34.9s 67: learn: 0.1894664 total: 13.2s remaining: 34.6s 68: learn: 0.1794664 total: 13.5 remaining: 34.5s 69: learn: 0.1797963 total: 13.2s remaining: 34.5s 70: learn: 0.1771819 total: 13.6s remaining: 33.8s 71: learn: 0.1771819 total: 13.6s remaining: 33.4s 73: learn: 0.1761364 total: 13.6s remaining: 33.4s 73: learn: 0.1761364 total: 14.5s remaining: 33.4s 74: learn: 0.1743741 total: 14.2s remaining: 33.5c 75: learn: 0.1734956 total: 14.3s remaining: 32.9s 76: learn: 0.1717970 total: 14.3s remaining: 32.9s 77: learn: 0.17726396 total: 14.3s remaining: 32.9s 78: learn: 0.1702616 total: 14.7s remaining: 32.4s 78: learn: 0.1702616 total: 14.7s remaining: 32.4s 78: learn: 0.1694839 total: 15.1s remaining: 32.4s 78: learn: 0.1687173 total: 15.1s remaining: 32.4s 78: learn: 0.1687438 total: 15.6s remaining: 31.6s 82: learn: 0.1664534 total: 15.6s remaining: 31.6s 83: learn: 0.1664534 total: 15.6s remaining: 31.6s 86: learn: 0.1664534 total: 16.2s remaining: 31.9s 79: learn: 0.1664534 total: 16.4s remaining: 30.9s 79: learn: 0.1664534 total: 16.8s remaining: 30.9s 79: learn: 0.1630669 total: 17.3s remaining: 30.9s 79: learn: 0.163083 total: 17.7s remaining: 29.95 88: learn: 0.168347 total: 17.9s remaining: 29.95 99: learn: 0.1582844 total: 18.4s remaining: 29.95 91: learn: 0.1582668 total: 19.9s remaining: 29.7s 79: learn: 0.1586669 total: 17.9s remaining: 29.7s 79: learn: 0.1586669 total: 19.9s remaining: 29.7s 79: learn: 0.158266 total: 19.9s remaining: 27.6s 79: learn: 0.158666 total: 19.9s remaining: 27.6s 79: learn: 0.158676 total: 19.9s remaining: 27.6s 79: learn: 0.158676 total: 19.9s remaining: 27.6s 700: learn:				•	
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	109:	learn: 0.1503145	total: 20.6s	remaining:	26.2s
111: learn: 0.1490033 total: 20.9s remaining: 25.8s	110:	learn: 0.1495372	total: 20.8s	remaining:	26s
	111:	learn: 0.1490033	total: 20.9s	remaining:	25.8s

112:	learn:	0.1484996	total:	21.1s	remaining:	25.6s
113:	learn:	0.1479123	total:	21.3s	remaining:	25.5s
114:	learn:	0.1473394	total:	21.6s	remaining:	25.3s
115:		0.1466590	total:		remaining:	
116:		0.1463101	total:		remaining:	
					_	
117:	learn:		total:		remaining:	
118:		0.1451751	total:		remaining:	
119:	learn:	0.1447712	total:	22.6s	remaining:	24.5s
120:	learn:	0.1441850	total:	22.8s	remaining:	24.3s
121:	learn:	0.1437182	total:	23s	remaining:	24.1s
122:	learn:	0.1432892	total:	23.1s	remaining:	
123:		0.1428609	total:		remaining:	
124:		0.1423724	total:		remaining:	
125:		0.1420418	total:		•	
					remaining:	
126:		0.1413838	total:		remaining:	
127:		0.1407544	total:		remaining:	
128:	learn:	0.1400543	total:	24.2s	remaining:	22.7s
129:	learn:	0.1395678	total:	24.4s	remaining:	22.5s
130:	learn:	0.1390196	total:	24.6s	remaining:	22.3s
131:	learn:	0.1385811	total:	24.8s	remaining:	22.1s
132:	learn:	0.1382360	total:		remaining:	
133:	learn:		total:		remaining:	
134:		0.1370499	total:		remaining:	
135:			total:		_	
	learn:				remaining:	
136:		0.1359215	total:		remaining:	
137:		0.1355387	total:		remaining:	
138:	learn:		total:	26s	remaining:	
139:	learn:	0.1345077	total:	26.2s	remaining:	20.6s
140:	learn:	0.1339498	total:	26.4s	remaining:	20.4s
141:	learn:	0.1335526	total:	26.6s	remaining:	20.2s
142:	learn:	0.1330743	total:	26.7s	remaining:	
143:		0.1326451	total:			19.8s
144:		0.1322878	total:		remaining:	
145:		0.1316630	total:		remaining:	
			total:		•	
146:		0.1311539			remaining:	
147:		0.1307274	total:		remaining:	
148:		0.1302482	total:		remaining:	
149:	learn:	0.1296771	total:		remaining:	
150:	learn:	0.1292562	total:	28.2s	remaining:	18.5s
151:	learn:	0.1286883	total:	28.4s	remaining:	18.3s
152:	learn:	0.1283227	total:	28.6s	remaining:	18.1s
153:	learn:	0.1278092	total:	28.8s	remaining:	
154:	learn:		total:		remaining:	
155:		0.1269729	total:		remaining:	
156:		0.1265287	total:		remaining:	
					•	
157:		0.1260876	total:		remaining:	
158:		0.1255918	total:		remaining:	
159:	learn:		total:		remaining:	16.8s
160:	learn:	0.1248288	total:	30.1s	remaining:	16.6s
161:	learn:	0.1242773	total:	30.3s	remaining:	16.5s
162:	learn:	0.1239224	total:	30.5s	remaining:	16.3s
163:	learn:	0.1235188	total:		remaining:	
164:		0.1229128	total:		•	15.9s
165:		0.1224862	total:		remaining:	
166:		0.1220338	total:		remaining:	
167:	learn:		total:		remaining:	15.3s
					_	
168:		0.1211150	total:		remaining:	
169:		0.1205813	total:		remaining:	15s
170:	rearn:	0.1200940	total:	32S	remaining:	14.8s

171: learn: 0.1193854 total: 32.4s remaining: 14.6s 173: learn: 0.1187332 total: 32.4s remaining: 14.2s 174: learn: 0.1183379 total: 32.6s remaining: 14.2s 175: learn: 0.1183379 total: 32.6s remaining: 14.2s 176: learn: 0.1177912 total: 32.9s remaining: 13.8s 176: learn: 0.1168003 total: 33.4s remaining: 13.6s 177: learn: 0.1163042 total: 33.4s remaining: 13.5s 178: learn: 0.1163042 total: 33.4s remaining: 13.3s 179: learn: 0.1163042 total: 33.4s remaining: 13.1s 180: learn: 0.1155599 total: 34.5s remaining: 12.9s 181: learn: 0.1155599 total: 34.5s remaining: 12.7s 182: learn: 0.1146570 total: 34.4s remaining: 12.5s 184: learn: 0.1146570 total: 34.4s remaining: 12.3s 185: learn: 0.1146570 total: 34.5s remaining: 12.1s 185: learn: 0.1136674 total: 34.7s remaining: 11.9s 186: learn: 0.1136674 total: 34.9s remaining: 11.7s 187: learn: 0.112465 total: 35.2s remaining: 11.6s 188: learn: 0.112465 total: 35.4s remaining: 11.6s 189: learn: 0.112465 total: 35.4s remaining: 11.6s 190: learn: 0.112408 total: 35.6s remaining: 11.6s 191: learn: 0.1117430 total: 35.6s remaining: 10.4s 193: learn: 0.1106658 total: 36.6s remaining: 10.4s 194: learn: 0.1106658 total: 36.4s remaining: 10.4s 195: learn: 0.106658 total: 36.4s remaining: 10.4s 196: learn: 0.108733 total: 36.6s remaining: 10.8s 197: learn: 0.108738 total: 36.4s remaining: 10.8s 199: learn: 0.1086330 total: 36.6s remaining: 9.4s 199: learn: 0.1086330 total: 36.8s remaining: 9.6s 200: learn: 0.1086330 total: 37.5s remaining: 9.7s 200: learn: 0.1086331 total: 37.6s remaining: 9.7s 201: learn: 0.1074994 total: 37.5s remaining: 9.7s 202: learn: 0.1086330 total: 37.6s remaining: 9.7s 203: learn: 0.1084060 total: 38.7s remaining: 9.7s 204: learn: 0.1087375 total: 39.5s remaining: 8.23s 205: learn: 0.1087397 total: 39.5s remaining: 9.7s 206: learn: 0.1087397 total: 39.5s remaining: 9.6s 207: learn: 0.1087397 total: 39.5s remaining: 8.23s 208: learn: 0.1084079 total: 39.5s remaining: 7.8s 209: learn: 0.1084079 total: 39.5s remaining: 7.8s 211: learn: 0.1094397 total: 39.5s r					
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211: learn: 0.1043079 total: 39.6s remaining: 7.09s 212: learn: 0.1039871 total: 39.7s remaining: 6.9s 213: learn: 0.1034207 total: 39.9s remaining: 6.72s 214: learn: 0.1030990 total: 40.1s remaining: 6.53s 215: learn: 0.1027692 total: 40.3s remaining: 6.34s 216: learn: 0.1024654 total: 40.4s remaining: 6.15s 217: learn: 0.1021955 total: 40.6s remaining: 5.96s 218: learn: 0.1019695 total: 40.8s remaining: 5.77s 219: learn: 0.1015417 total: 41.s remaining: 5.59s 220: learn: 0.1007853 total: 41.1s remaining: 5.4s 221: learn: 0.1004169 total: 41.3s remaining: 5.21s 222: learn: 0.1004169 total: 41.7s remaining: 5.03s 223: learn: 0.0997536 total: 41.9s remaining: 4.84s 224: learn: 0.0994725 total: 42.1s remaining: 4.47s 226: learn: 0.0988052 total: 42.4s remaining: 3.91s	210:	learn: 0.1047405	total: 39.4s	remaining:	7.28s
212: learn: 0.1039871 total: 39.7s remaining: 6.9s 213: learn: 0.1034207 total: 39.9s remaining: 6.72s 214: learn: 0.1030990 total: 40.1s remaining: 6.53s 215: learn: 0.1027692 total: 40.3s remaining: 6.34s 216: learn: 0.1024654 total: 40.4s remaining: 6.15s 217: learn: 0.1021955 total: 40.6s remaining: 5.96s 218: learn: 0.1019695 total: 40.8s remaining: 5.77s 219: learn: 0.1015417 total: 41s remaining: 5.59s 220: learn: 0.1012500 total: 41.1s remaining: 5.4s 221: learn: 0.1007853 total: 41.3s remaining: 5.21s 222: learn: 0.1004169 total: 41.5s remaining: 5.03s 223: learn: 0.1000775 total: 41.7s remaining: 4.84s 224: learn: 0.0994725 total: 42.1s remaining: 4.47s 226: learn: 0.0994725 total: 42.2s remaining: 4.28s 227: learn: 0.0986052 total: 42.6s remaining: 3.91s	211:	learn: 0.1043079	total: 39.6s	_	
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214:learn: 0.1030990total: 40.1sremaining: 6.53s215:learn: 0.1027692total: 40.3sremaining: 6.34s216:learn: 0.1024654total: 40.4sremaining: 6.15s217:learn: 0.1021955total: 40.6sremaining: 5.96s218:learn: 0.1019695total: 40.8sremaining: 5.77s219:learn: 0.1015417total: 41sremaining: 5.59s220:learn: 0.1012500total: 41.1sremaining: 5.4s221:learn: 0.1007853total: 41.3sremaining: 5.21s222:learn: 0.1004169total: 41.5sremaining: 5.03s223:learn: 0.1000775total: 41.7sremaining: 4.84s224:learn: 0.0997536total: 41.9sremaining: 4.65s225:learn: 0.0994725total: 42.1sremaining: 4.47s226:learn: 0.0991963total: 42.2sremaining: 4.28s227:learn: 0.0986052total: 42.4sremaining: 3.91s				•	
215: learn: 0.1027692 total: 40.3s remaining: 6.34s 216: learn: 0.1024654 total: 40.4s remaining: 6.15s 217: learn: 0.1021955 total: 40.6s remaining: 5.96s 218: learn: 0.1019695 total: 40.8s remaining: 5.77s 219: learn: 0.1015417 total: 41s remaining: 5.59s 220: learn: 0.1012500 total: 41.1s remaining: 5.4s 221: learn: 0.1007853 total: 41.3s remaining: 5.21s 222: learn: 0.1004169 total: 41.5s remaining: 5.03s 223: learn: 0.1000775 total: 41.7s remaining: 4.84s 224: learn: 0.0997536 total: 41.9s remaining: 4.65s 225: learn: 0.0994725 total: 42.1s remaining: 4.47s 226: learn: 0.0991963 total: 42.2s remaining: 4.28s 227: learn: 0.0986052 total: 42.4s remaining: 4.09s 228: learn: 0.0986052 total: 42.6s remaining: 3.91s				•	
216:learn:0.1024654total:40.4sremaining:6.15s217:learn:0.1021955total:40.6sremaining:5.96s218:learn:0.1019695total:40.8sremaining:5.77s219:learn:0.1015417total:41sremaining:5.59s220:learn:0.1012500total:41.1sremaining:5.4s221:learn:0.1007853total:41.3sremaining:5.21s222:learn:0.1004169total:41.5sremaining:5.03s223:learn:0.1000775total:41.7sremaining:4.84s224:learn:0.0997536total:41.9sremaining:4.65s225:learn:0.0994725total:42.1sremaining:4.47s226:learn:0.0991963total:42.2sremaining:4.28s227:learn:0.0989524total:42.4sremaining:3.91s28:learn:0.0986052total:42.6sremaining:3.91s				_	
217: learn: 0.1021955 total: 40.6s remaining: 5.96s 218: learn: 0.1019695 total: 40.8s remaining: 5.77s 219: learn: 0.1015417 total: 41s remaining: 5.59s 220: learn: 0.1012500 total: 41.1s remaining: 5.4s 221: learn: 0.1007853 total: 41.3s remaining: 5.21s 222: learn: 0.1004169 total: 41.5s remaining: 5.03s 223: learn: 0.1000775 total: 41.7s remaining: 4.84s 224: learn: 0.0997536 total: 41.9s remaining: 4.65s 225: learn: 0.0994725 total: 42.1s remaining: 4.67s 226: learn: 0.0991963 total: 42.2s remaining: 4.28s 227: learn: 0.0989524 total: 42.4s remaining: 4.09s 228: learn: 0.0986052 total: 42.6s remaining: 3.91s				•	
218:learn:0.1019695total:40.8sremaining:5.77s219:learn:0.1015417total:41sremaining:5.59s220:learn:0.1012500total:41.1sremaining:5.4s221:learn:0.1007853total:41.3sremaining:5.21s222:learn:0.1004169total:41.5sremaining:5.03s223:learn:0.1000775total:41.7sremaining:4.84s224:learn:0.0997536total:41.9sremaining:4.65s225:learn:0.0994725total:42.1sremaining:4.28s226:learn:0.0991963total:42.2sremaining:4.28s227:learn:0.0989524total:42.4sremaining:4.09s228:learn:0.0986052total:42.6sremaining:3.91s				_	
219: learn: 0.1015417 total: 41s remaining: 5.59s 220: learn: 0.1012500 total: 41.1s remaining: 5.4s 221: learn: 0.1007853 total: 41.3s remaining: 5.21s 222: learn: 0.1004169 total: 41.5s remaining: 5.03s 223: learn: 0.1000775 total: 41.7s remaining: 4.84s 224: learn: 0.0997536 total: 41.9s remaining: 4.65s 225: learn: 0.0994725 total: 42.1s remaining: 4.47s 226: learn: 0.0991963 total: 42.2s remaining: 4.28s 227: learn: 0.0989524 total: 42.4s remaining: 4.09s 228: learn: 0.0986052 total: 42.6s remaining: 3.91s				•	
220: learn: 0.1012500 total: 41.1s remaining: 5.4s 221: learn: 0.1007853 total: 41.3s remaining: 5.21s 222: learn: 0.1004169 total: 41.5s remaining: 5.03s 223: learn: 0.1000775 total: 41.7s remaining: 4.84s 224: learn: 0.0997536 total: 41.9s remaining: 4.65s 225: learn: 0.0994725 total: 42.1s remaining: 4.47s 226: learn: 0.0991963 total: 42.2s remaining: 4.28s 227: learn: 0.0989524 total: 42.4s remaining: 4.09s 228: learn: 0.0986052 total: 42.6s remaining: 3.91s	218:	learn: 0.1019695	total: 40.8s	remaining:	5.77s
221:learn: 0.1007853total: 41.3sremaining: 5.21s222:learn: 0.1004169total: 41.5sremaining: 5.03s223:learn: 0.1000775total: 41.7sremaining: 4.84s224:learn: 0.0997536total: 41.9sremaining: 4.65s225:learn: 0.0994725total: 42.1sremaining: 4.47s226:learn: 0.0991963total: 42.2sremaining: 4.28s227:learn: 0.0989524total: 42.4sremaining: 4.09s228:learn: 0.0986052total: 42.6sremaining: 3.91s	219:	learn: 0.1015417	total: 41s	remaining:	5.59s
221:learn: 0.1007853total: 41.3sremaining: 5.21s222:learn: 0.1004169total: 41.5sremaining: 5.03s223:learn: 0.1000775total: 41.7sremaining: 4.84s224:learn: 0.0997536total: 41.9sremaining: 4.65s225:learn: 0.0994725total: 42.1sremaining: 4.47s226:learn: 0.0991963total: 42.2sremaining: 4.28s227:learn: 0.0989524total: 42.4sremaining: 4.09s228:learn: 0.0986052total: 42.6sremaining: 3.91s	220:	learn: 0.1012500	total: 41.1s	remaining:	5.4s
222:learn:0.1004169total:41.5sremaining:5.03s223:learn:0.1000775total:41.7sremaining:4.84s224:learn:0.0997536total:41.9sremaining:4.65s225:learn:0.0994725total:42.1sremaining:4.47s226:learn:0.0991963total:42.2sremaining:4.28s227:learn:0.0989524total:42.4sremaining:4.09s228:learn:0.0986052total:42.6sremaining:3.91s		learn: 0.1007853	total: 41.3s	•	
223:learn:0.1000775total:41.7sremaining:4.84s224:learn:0.0997536total:41.9sremaining:4.65s225:learn:0.0994725total:42.1sremaining:4.47s226:learn:0.0991963total:42.2sremaining:4.28s227:learn:0.0989524total:42.4sremaining:4.09s228:learn:0.0986052total:42.6sremaining:3.91s				•	
224: learn: 0.0997536 total: 41.9s remaining: 4.65s 225: learn: 0.0994725 total: 42.1s remaining: 4.47s 226: learn: 0.0991963 total: 42.2s remaining: 4.28s 227: learn: 0.0989524 total: 42.4s remaining: 4.09s 228: learn: 0.0986052 total: 42.6s remaining: 3.91s				•	
225: learn: 0.0994725 total: 42.1s remaining: 4.47s 226: learn: 0.0991963 total: 42.2s remaining: 4.28s 227: learn: 0.0989524 total: 42.4s remaining: 4.09s 228: learn: 0.0986052 total: 42.6s remaining: 3.91s				•	
226: learn: 0.0991963 total: 42.2s remaining: 4.28s 227: learn: 0.0989524 total: 42.4s remaining: 4.09s 228: learn: 0.0986052 total: 42.6s remaining: 3.91s				_	
227: learn: 0.0989524 total: 42.4s remaining: 4.09s 228: learn: 0.0986052 total: 42.6s remaining: 3.91s				•	
228: learn: 0.0986052 total: 42.6s remaining: 3.91s				_	
<u> </u>				_	
229: learn: 0.0981980 total: 42.8s remaining: 3.72s	228:	learn: 0.0986052	total: 42.6s	remaining:	3.91s
	229:	learn: 0.0981980	total: 42.8s	remaining:	3.72s

```
230:
        learn: 0.0979164
                                 total: 42.9s
                                                  remaining: 3.53s
231:
        learn: 0.0976241
                                 total: 43.1s
                                                  remaining: 3.35s
                                                  remaining: 3.16s
232:
        learn: 0.0972181
                                 total: 43.3s
233:
        learn: 0.0968757
                                 total: 43.5s
                                                  remaining: 2.97s
234:
        learn: 0.0965385
                                 total: 43.7s
                                                  remaining: 2.79s
235:
        learn: 0.0962159
                                 total: 43.8s
                                                  remaining: 2.6s
        learn: 0.0959340
236:
                                 total: 44s
                                                  remaining: 2.42s
237:
        learn: 0.0956827
                                 total: 44.2s
                                                  remaining: 2.23s
238:
        learn: 0.0953824
                                 total: 44.4s
                                                  remaining: 2.04s
239:
        learn: 0.0949940
                                 total: 44.6s
                                                  remaining: 1.86s
240:
        learn: 0.0946574
                                 total: 44.7s
                                                  remaining: 1.67s
241:
        learn: 0.0942534
                                 total: 44.9s
                                                  remaining: 1.49s
242:
        learn: 0.0939368
                                 total: 45.1s
                                                  remaining: 1.3s
243:
        learn: 0.0935915
                                 total: 45.3s
                                                  remaining: 1.11s
                                                  remaining: 928ms
244:
        learn: 0.0933163
                                 total: 45.5s
245:
        learn: 0.0930159
                                 total: 45.7s
                                                  remaining: 743ms
246:
        learn: 0.0928115
                                 total: 45.8s
                                                  remaining: 557ms
                                                  remaining: 371ms
247:
        learn: 0.0926636
                                 total: 46s
248:
                                 total: 46.2s
        learn: 0.0923219
                                                  remaining: 185ms
249:
        learn: 0.0920521
                                 total: 46.4s
                                                  remaining: Ous
[CV]
      learning_rate=0.3, 12_leaf_reg=5, iterations=250, depth=9, ctr_bor
der_count=5, border_count=50, score=0.8693966933550195, total= 53.1s
[CV] learning_rate=0.3, 12_leaf_reg=5, iterations=250, depth=9, ctr_bord
er count=5, border count=50
        learn: 0.4791484
0:
                                 total: 189ms
                                                  remaining: 47s
1:
        learn: 0.3859719
                                 total: 397ms
                                                  remaining: 49.2s
2:
        learn: 0.3396688
                                 total: 603ms
                                                  remaining: 49.7s
3:
        learn: 0.3153173
                                 total: 795ms
                                                  remaining: 48.9s
4:
        learn: 0.3030565
                                 total: 975ms
                                                  remaining: 47.8s
                                                  remaining: 47.4s
5:
        learn: 0.2945879
                                 total: 1.17s
6:
        learn: 0.2879436
                                 total: 1.33s
                                                  remaining: 46.3s
7:
        learn: 0.2825511
                                 total: 1.5s
                                                  remaining: 45.6s
8:
        learn: 0.2781903
                                 total: 1.68s
                                                  remaining: 44.9s
9:
        learn: 0.2742340
                                 total: 1.86s
                                                  remaining: 44.6s
10:
        learn: 0.2701442
                                 total: 2.03s
                                                  remaining: 44s
11:
        learn: 0.2669259
                                 total: 2.19s
                                                  remaining: 43.5s
                                 total: 2.37s
12:
        learn: 0.2637134
                                                  remaining: 43.2s
13:
        learn: 0.2609340
                                 total: 2.55s
                                                  remaining: 43s
                                                  remaining: 42.8s
14:
        learn: 0.2575826
                                 total: 2.73s
15:
        learn: 0.2553005
                                 total: 2.9s
                                                  remaining: 42.5s
16:
        learn: 0.2527755
                                 total: 3.08s
                                                  remaining: 42.3s
17:
        learn: 0.2504701
                                 total: 3.26s
                                                  remaining: 42s
18:
        learn: 0.2479095
                                 total: 3.44s
                                                  remaining: 41.8s
                                 total: 3.62s
19:
        learn: 0.2457186
                                                  remaining: 41.6s
                                 total: 3.79s
20:
        learn: 0.2435257
                                                  remaining: 41.4s
21:
        learn: 0.2412993
                                 total: 3.97s
                                                  remaining: 41.1s
22:
        learn: 0.2389084
                                 total: 4.17s
                                                  remaining: 41.2s
23:
        learn: 0.2367855
                                 total: 4.33s
                                                  remaining: 40.8s
24:
        learn: 0.2349334
                                 total: 4.51s
                                                  remaining: 40.6s
25:
        learn: 0.2330086
                                 total: 4.7s
                                                  remaining: 40.5s
                                                  remaining: 40.2s
26:
        learn: 0.2312944
                                 total: 4.86s
27:
        learn: 0.2296953
                                 total: 5.03s
                                                  remaining: 39.9s
28:
        learn: 0.2279432
                                 total: 5.21s
                                                  remaining: 39.7s
29:
        learn: 0.2263344
                                 total: 5.4s
                                                  remaining: 39.6s
30:
        learn: 0.2245338
                                 total: 5.58s
                                                  remaining: 39.4s
                                                  remaining: 39.2s
31:
        learn: 0.2231063
                                 total: 5.76s
32:
        learn: 0.2218371
                                 total: 5.93s
                                                  remaining: 39s
33:
        learn: 0.2203444
                                 total: 6.11s
                                                  remaining: 38.8s
34:
        learn: 0.2189634
                                 total: 6.28s
                                                  remaining: 38.6s
```

35:	learn: 0.2175630	total: 6.49s	remaining:	38.6s
36:	learn: 0.2162548	total: 6.67s	remaining:	38.4s
37:	learn: 0.2149149	total: 6.86s	remaining:	
			_	
38:	learn: 0.2136439	total: 7.03s	remaining:	
39:	learn: 0.2120964	total: 7.22s	remaining:	37.9s
40:	learn: 0.2108575	total: 7.39s	remaining:	37.7s
41:	learn: 0.2095237	total: 7.57s	remaining:	
42:	learn: 0.2081379	total: 7.74s	remaining:	
			_	
43:	learn: 0.2065805	total: 7.94s	remaining:	
44:	learn: 0.2054108	total: 8.12s	remaining:	37s
45:	learn: 0.2041723	total: 8.3s	remaining:	36.8s
46:	learn: 0.2029785	total: 8.47s	remaining:	36.65
47:	learn: 0.2017449	total: 8.65s	remaining:	
48:	learn: 0.2007443	total: 8.84s	remaining:	
			-	
49:	learn: 0.1992199	total: 9.03s	remaining:	
50:	learn: 0.1979514	total: 9.22s	remaining:	36s
51:	learn: 0.1968876	total: 9.41s	remaining:	35.8s
52:	learn: 0.1955732	total: 9.61s	remaining:	
53:	learn: 0.1943830	total: 9.8s	remaining:	
			•	
54:	learn: 0.1931969	total: 9.99s	remaining:	
55:	learn: 0.1920846	total: 10.2s	remaining:	35.2s
56:	learn: 0.1911199	total: 10.4s	remaining:	35.1s
57:	learn: 0.1900980	total: 10.5s	remaining:	34.9s
58:	learn: 0.1891975	total: 10.7s	remaining:	
59:	learn: 0.1882537	total: 10.9s	remaining:	
			_	
60:	learn: 0.1874207	tota <u>l</u> : 11.1s	remaining:	
61:	learn: 0.1865712	total: 11.3s	remaining:	
62:	learn: 0.1855812	total: 11.4s	remaining:	34s
63:	learn: 0.1845832	total: 11.6s	remaining:	33.8s
64:	learn: 0.1836716	total: 11.8s	remaining:	
65:	learn: 0.1828306	total: 12s	remaining:	
			•	
66:	learn: 0.1819419	total: 12.2s	•	33.3s
67:	learn: 0.1810427	total: 12.4s	remaining:	
68:	learn: 0.1800450	total: 12.5s	remaining:	32.9s
69:	learn: 0.1791899	total: 12.7s	remaining:	32.8s
70:	learn: 0.1783136	total: 13s	remaining:	
71:	learn: 0.1776416	total: 13.2s	remaining:	
72:	learn: 0.1765756	total: 13.5s	remaining:	
73:	learn: 0.1757801	total: 13.7s	remaining:	
74:	learn: 0.1750955	total: 13.9s	remaining:	32.4s
75:	learn: 0.1742257	total: 14.1s	remaining:	32.2s
76:	learn: 0.1735937	total: 14.2s	remaining:	
77:	learn: 0.1726695	total: 14.4s	remaining:	
			•	
78:	learn: 0.1719074	total: 14.6s	remaining:	
79:	learn: 0.1711424	total: 14.8s	remaining:	
80:	learn: 0.1704233	total: 15s	remaining:	31.2s
81:	learn: 0.1693817	total: 15.2s	remaining:	31s
82:	learn: 0.1685046	total: 15.3s	remaining:	
83:	learn: 0.1677332	total: 15.5s	remaining:	
			_	
84:	learn: 0.1670819	total: 15.7s	remaining:	
85:	learn: 0.1663392	total: 15.9s	remaining:	
86:	learn: 0.1655464	total: 16.1s	remaining:	30.1s
87:	learn: 0.1647056	total: 16.3s	remaining:	30s
88:	learn: 0.1638859	total: 16.5s	remaining:	
89:	learn: 0.1629470	total: 16.7s	remaining:	
			•	
90:	learn: 0.1621447	total: 16.9s	remaining:	
91:	learn: 0.1613449	total: 17.1s	remaining:	
92:	learn: 0.1606185	total: 17.3s	remaining:	29.1s
93:	learn: 0.1600720	total: 17.4s	remaining:	28.9s

94:	learn: 0.1592979	total: 17.6s	remaining:	28.8s
95:	learn: 0.1586702	total: 17.8s	remaining:	28.6s
96:	learn: 0.1579869	total: 18s	remaining:	28.4s
97:	learn: 0.1573500	total: 18.2s	remaining:	28.2s
98:	learn: 0.1567114	total: 18.3s	remaining:	28s
99:	learn: 0.1561609	total: 18.5s	remaining:	
100:	learn: 0.1555731	total: 18.7s	remaining:	
101:	learn: 0.1550328	total: 18.9s	remaining:	
102:	learn: 0.1543957	total: 19.1s	remaining:	
103:	learn: 0.1537552	total: 19.2s	remaining:	
104:	learn: 0.1531893	total: 19.4s	remaining:	
105:	learn: 0.1524944	total: 19.6s	remaining:	26.6s
105:	learn: 0.1518826	total: 19.8s	remaining:	
100:	learn: 0.1514500	total: 19.9s	remaining:	
107:		total: 19.95		
	learn: 0.1508265		remaining:	
109:	learn: 0.1501785	total: 20.3s	remaining:	
110:	learn: 0.1494956	total: 20.5s	remaining:	
111:	learn: 0.1489326	total: 20.7s	remaining:	
112:	learn: 0.1481631	total: 20.9s	remaining:	
113:	learn: 0.1474517	total: 21.1s	remaining:	
114:	learn: 0.1468684	total: 21.3s	remaining:	25s
115:	learn: 0.1464201	total: 21.4s	remaining:	
116:	learn: 0.1458695	total: 21.6s	remaining:	24.6s
117:	learn: 0.1450803	total: 21.8s	remaining:	24.4s
118:	learn: 0.1445668	total: 22s	remaining:	24.2s
119:	learn: 0.1439877	total: 22.2s	remaining:	24s
120:	learn: 0.1435998	total: 22.3s	remaining:	23.8s
121:	learn: 0.1429463	total: 22.5s	remaining:	23.6s
122:	learn: 0.1423595	total: 22.7s	remaining:	23.4s
123:	learn: 0.1418154	total: 22.9s	remaining:	
124:	learn: 0.1411360	total: 23.1s	remaining:	
125:	learn: 0.1405505	total: 23.3s	remaining:	
126:	learn: 0.1399429	total: 23.4s	remaining:	
127:	learn: 0.1394345	total: 23.6s	remaining:	
128:	learn: 0.1388317	total: 23.8s	remaining:	
129:	learn: 0.1380696	total: 24s	remaining:	
130:	learn: 0.1376656	total: 24.2s	remaining:	225
131:	learn: 0.1370030	total: 24.4s	remaining:	
131:	learn: 0.1363867	total: 24.6s	remaining:	
132:	learn: 0.1357760	total: 24.8s	remaining:	
133. 134:			_	
	learn: 0.1353818	total: 24.9s	remaining:	21.25
135:	learn: 0.1348842	total: 25.1s	remaining:	
136:	learn: 0.1343875	total: 25.3s	remaining:	
137:	learn: 0.1337786	total: 25.5s	remaining:	
138:	learn: 0.1334275	total: 25.7s	remaining:	20.5s
139:	learn: 0.1328222	total: 25.9s	remaining:	20.3s
140:	learn: 0.1322841	total: 26s	remaining:	
141:	learn: 0.1318156	total: 26.2s	remaining:	19.9s
142:	learn: 0.1313310	total: 26.4s	remaining:	
143:	learn: 0.1309315	total: 26.6s	remaining:	19.6s
144:	learn: 0.1304834	total: 26.8s	remaining:	19.4s
145:	learn: 0.1300498	total: 26.9s	remaining:	19.2s
146:	learn: 0.1296721	total: 27.1s	remaining:	19s
147:	learn: 0.1289817	total: 27.3s	remaining:	18.8s
148:	learn: 0.1283509	total: 27.5s	remaining:	
149:	learn: 0.1278883	total: 27.7s	remaining:	18.5s
150:	learn: 0.1274424	total: 27.9s	remaining:	18.3s
151:	learn: 0.1270097	total: 28.1s	remaining:	18.1s
152:	learn: 0.1263570	total: 28.3s	remaining:	
-2	_CG1 11. 0.1203370	CC CGI. 20.55		-, , , , 3

153:	learn: 0.1257552	total: 28.5s	remaining:	17.7s
154:	learn: 0.1253823	total: 28.6s	remaining:	17.6s
155:	learn: 0.1248050	total: 28.9s	remaining:	17.4s
156:	learn: 0.1243771	total: 29.1s	remaining:	
157:	learn: 0.1239134	total: 29.3s	remaining:	
158:	learn: 0.1234965	total: 29.6s	remaining:	
159:	learn: 0.1229634	total: 29.8s	remaining:	
160:	learn: 0.1224118	total: 30s	remaining:	16.6s
161:	learn: 0.1220070	total: 30.2s	remaining:	16.4s
162:	learn: 0.1215769	total: 30.4s	remaining:	16.2s
163:	learn: 0.1209396	total: 30.6s	remaining:	16s
164:	learn: 0.1205621	total: 30.8s	remaining:	
			_	
165:	learn: 0.1202092	total: 30.9s	remaining:	
166:	learn: 0.1199118	total: 31.1s	remaining:	
167:	learn: 0.1193274	total: 31.3s	remaining:	15.3s
168:	learn: 0.1190431	total: 31.4s	remaining:	15.1s
169:	learn: 0.1184336	total: 31.7s	remaining:	14.9s
170:	learn: 0.1180723	total: 31.8s	remaining:	
171:	learn: 0.1176226	total: 32s	remaining:	
172:	learn: 0.1172831	total: 32.2s	remaining:	
172: 173:	learn: 0.1172631	total: 32.4s	_	
			remaining:	
174:	learn: 0.1164030	total: 32.6s	remaining:	
175:	learn: 0.1160412	total: 32.7s	remaining:	
176:	learn: 0.1157784	total: 32.9s	remaining:	
177:	learn: 0.1153171	total: 33.1s	remaining:	13.4s
178:	learn: 0.1148197	total: 33.2s	remaining:	13.2s
179:	learn: 0.1144284	total: 33.4s	remaining:	13s
180:	learn: 0.1140228	total: 33.6s	remaining:	
181:	learn: 0.1137194	total: 33.8s	remaining:	
182:	learn: 0.1133554	total: 34s	remaining:	
183:	learn: 0.1128689	total: 34.2s	remaining:	
			0	
184:	learn: 0.1124317	total: 34.3s		12.1s
185:	learn: 0.1121665	total: 34.5s	remaining:	
186:	learn: 0.1119117	total: 34.7s	remaining:	
187:	learn: 0.1114584	total: 34.9s	remaining:	
188:	learn: 0.1111208	total: 35s	remaining:	11.3s
189:	learn: 0.1107892	total: 35.2s	remaining:	11.1s
190:	learn: 0.1105005	total: 35.4s	remaining:	10.9s
191:	learn: 0.1102293	total: 35.5s	remaining:	
192:	learn: 0.1098001	total: 35.7s	remaining:	10.6s
193:	learn: 0.1095479	total: 35.7s	remaining:	
194:	learn: 0.1093475	total: 36.1s	remaining:	
			•	
195:	learn: 0.1089602	total: 36.3s	remaining:	
196:	learn: 0.1085251	total: 36.4s	remaining:	
197:	learn: 0.1081995	total: 36.6s	remaining:	
198:	learn: 0.1078740	total: 36.8s	remaining:	9.43s
199:	learn: 0.1074648	total: 37s	remaining:	9.24s
200:	learn: 0.1071670	total: 37.2s	remaining:	9.06s
201:	learn: 0.1068791	total: 37.3s	remaining:	
202:	learn: 0.1063763	total: 37.5s	remaining:	
202:	learn: 0.1060084	total: 37.7s	remaining:	
204:	learn: 0.1057285	total: 37.73	•	
			remaining:	
205:	learn: 0.1054158	total: 38s	remaining:	
206:	learn: 0.1050048	total: 38.2s	remaining:	
207:	learn: 0.1046295	total: 38.4s	remaining:	
208:	learn: 0.1044257	total: 38.6s	remaining:	
209:	learn: 0.1040214	total: 38.8s	remaining:	7.39s
210:	learn: 0.1037237	total: 38.9s	remaining:	7.2s
211:	learn: 0.1034253	total: 39.1s	remaining:	7.01s

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212:
                                 total: 39.3s
                                                   remaining: 6.83s
        learn: 0.1030921
                                                   remaining: 6.64s
213:
        learn: 0.1028088
                                 total: 39.5s
                                                   remaining: 6.46s
214:
        learn: 0.1025776
                                 total: 39.7s
                                 total: 39.8s
215:
        learn: 0.1023781
                                                   remaining: 6.27s
216:
        learn: 0.1020651
                                 total: 40s
                                                   remaining: 6.08s
                                                   remaining: 5.89s
217:
        learn: 0.1017222
                                 total: 40.2s
        learn: 0.1014386
                                 total: 40.3s
218:
                                                   remaining: 5.71s
219:
        learn: 0.1010217
                                 total: 40.5s
                                                   remaining: 5.53s
220:
        learn: 0.1007805
                                 total: 40.7s
                                                   remaining: 5.34s
                                 total: 40.9s
221:
        learn: 0.1005233
                                                   remaining: 5.15s
222:
        learn: 0.1002157
                                 total: 41s
                                                   remaining: 4.97s
223:
        learn: 0.0998511
                                 total: 41.2s
                                                   remaining: 4.78s
        learn: 0.0994927
224:
                                 total: 41.4s
                                                   remaining: 4.6s
225:
        learn: 0.0989736
                                 total: 41.6s
                                                   remaining: 4.42s
                                                   remaining: 4.23s
226:
        learn: 0.0986677
                                 total: 41.7s
227:
        learn: 0.0984116
                                 total: 41.9s
                                                   remaining: 4.04s
228:
        learn: 0.0980191
                                 total: 42.1s
                                                   remaining: 3.86s
                                                   remaining: 3.67s
229:
        learn: 0.0977538
                                 total: 42.3s
230:
        learn: 0.0973968
                                 total: 42.4s
                                                   remaining: 3.49s
231:
        learn: 0.0970499
                                 total: 42.6s
                                                   remaining: 3.31s
232:
        learn: 0.0968195
                                 total: 42.8s
                                                   remaining: 3.12s
                                                   remaining: 2.94s
233:
        learn: 0.0964678
                                 total: 43s
234:
        learn: 0.0961198
                                 total: 43.2s
                                                   remaining: 2.75s
235:
        learn: 0.0958346
                                 total: 43.3s
                                                   remaining: 2.57s
236:
        learn: 0.0955192
                                 total: 43.5s
                                                   remaining: 2.39s
                                                   remaining: 2.2s
237:
        learn: 0.0950790
                                 total: 43.7s
238:
        learn: 0.0947202
                                 total: 43.9s
                                                   remaining: 2.02s
239:
        learn: 0.0943974
                                 total: 44.1s
                                                   remaining: 1.84s
240:
        learn: 0.0940947
                                 total: 44.2s
                                                   remaining: 1.65s
241:
        learn: 0.0938206
                                 total: 44.4s
                                                   remaining: 1.47s
242:
        learn: 0.0935368
                                 total: 44.6s
                                                   remaining: 1.28s
243:
        learn: 0.0933376
                                 total: 44.8s
                                                   remaining: 1.1s
244:
        learn: 0.0929763
                                 total: 45.1s
                                                   remaining: 920ms
245:
        learn: 0.0925575
                                 total: 45.3s
                                                   remaining: 737ms
        learn: 0.0921511
246:
                                 total: 45.6s
                                                   remaining: 553ms
247:
                                                   remaining: 369ms
        learn: 0.0918276
                                 total: 45.8s
248:
        learn: 0.0916166
                                 total: 45.9s
                                                   remaining: 184ms
249:
        learn: 0.0912631
                                 total: 46.1s
                                                   remaining: Ous
      learning_rate=0.3, 12_leaf_reg=5, iterations=250, depth=9, ctr_bor
[CV]
der count=5, border count=50, score=0.8736747197625729, total= 53.3s
[CV] learning_rate=0.3, l2_leaf_reg=10, iterations=500, depth=10, ctr_bo
rder count=50, border count=10
0:
        learn: 0.4798546
                                 total: 347ms
                                                   remaining: 2m 53s
1:
        learn: 0.3851177
                                 total: 724ms
                                                   remaining: 3m
                                                   remaining: 2m 58s
2:
        learn: 0.3378892
                                 total: 1.08s
3:
        learn: 0.3150566
                                 total: 1.44s
                                                   remaining: 2m 58s
4:
        learn: 0.3010769
                                 total: 1.78s
                                                   remaining: 2m 56s
5:
        learn: 0.2908301
                                 total: 2.12s
                                                   remaining: 2m 54s
6:
        learn: 0.2837076
                                 total: 2.46s
                                                   remaining: 2m 53s
7:
        learn: 0.2780996
                                 total: 2.81s
                                                   remaining: 2m 52s
8:
        learn: 0.2736895
                                                   remaining: 2m 51s
                                 total: 3.15s
9:
        learn: 0.2700928
                                 total: 3.49s
                                                   remaining: 2m 50s
10:
        learn: 0.2667114
                                 total: 3.85s
                                                   remaining: 2m 51s
11:
        learn: 0.2623414
                                 total: 4.2s
                                                   remaining: 2m 50s
12:
        learn: 0.2593473
                                 total: 4.58s
                                                   remaining: 2m 51s
13:
        learn: 0.2559079
                                 total: 5.02s
                                                   remaining: 2m 54s
14:
        learn: 0.2527767
                                 total: 5.46s
                                                   remaining: 2m 56s
15:
        learn: 0.2495945
                                 total: 5.83s
                                                   remaining: 2m 56s
                                 total: 6.17s
16:
        learn: 0.2465759
                                                   remaining: 2m 55s
```

17.	100mm 0 2420244	totol. C [1c	nompining, 2m F4s
17:	learn: 0.2438244	total: 6.51s	remaining: 2m 54s
18:	learn: 0.2415524	total: 6.86s	remaining: 2m 53s
19:	learn: 0.2393563	total: 7.21s	remaining: 2m 53s
20:	learn: 0.2372225	total: 7.58s	remaining: 2m 52s
21:	learn: 0.2345821	total: 7.96s	remaining: 2m 53s
22:	learn: 0.2321879	total: 8.36s	remaining: 2m 53s
23:	learn: 0.2295365	total: 8.72s	remaining: 2m 52s
24:	learn: 0.2275792	total: 9.09s	remaining: 2m 52s
25:	learn: 0.2255624	total: 9.44s	remaining: 2m 52s
26:	learn: 0.2235233	total: 9.79s	remaining: 2m 51s
27:	learn: 0.2215027	total: 10.1s	remaining: 2m 50s
28:	learn: 0.2195782	total: 10.5s	remaining: 2m 50s
29:	learn: 0.2177669	total: 10.8s	remaining: 2m 49s
30:	learn: 0.2158047	total: 11.2s	remaining: 2m 49s
31:	learn: 0.2137032	total: 11.6s	remaining: 2m 49s
32:	learn: 0.2137032	total: 11.03	remaining: 2m 48s
33:	learn: 0.2099602	total: 12.2s	remaining: 2m 47s
			<u> </u>
34:	learn: 0.2080706	total: 12.6s	remaining: 2m 47s
35:	learn: 0.2065193	total: 12.9s	remaining: 2m 46s
36:	learn: 0.2049700	total: 13.3s	remaining: 2m 46s
37:	learn: 0.2029679	total: 13.6s	remaining: 2m 45s
38:	learn: 0.2010801	total: 14s	remaining: 2m 45s
39:	learn: 0.1991170	total: 14.3s	remaining: 2m 44s
40:	learn: 0.1976901	total: 14.7s	remaining: 2m 44s
41:	learn: 0.1961988	total: 15s	remaining: 2m 43s
42:	learn: 0.1944789	total: 15.4s	remaining: 2m 43s
43:	learn: 0.1926980	total: 15.7s	remaining: 2m 43s
44:	learn: 0.1911442	total: 16.1s	remaining: 2m 42s
45:	learn: 0.1896643	total: 16.5s	remaining: 2m 42s
46:	learn: 0.1881601	total: 16.8s	remaining: 2m 42s
47:	learn: 0.1868593	total: 17.2s	remaining: 2m 41s
48:	learn: 0.1852031	total: 17.5s	· ·
			remaining: 2m 41s
49:	learn: 0.1836429	total: 17.9s	remaining: 2m 40s
50:	learn: 0.1823939	total: 18.2s	remaining: 2m 40s
51:	learn: 0.1809583	total: 18.6s	remaining: 2m 39s
52:	learn: 0.1795263	total: 18.9s	remaining: 2m 39s
53:	learn: 0.1783284	total: 19.3s	remaining: 2m 39s
54:	learn: 0.1771719	total: 19.6s	remaining: 2m 38s
55:	learn: 0.1756566	total: 19.9s	remaining: 2m 38s
56:	learn: 0.1742886	total: 20.3s	remaining: 2m 37s
57:	learn: 0.1729951	total: 20.7s	remaining: 2m 37s
58:	learn: 0.1714629	total: 21.1s	remaining: 2m 37s
59:	learn: 0.1703748	total: 21.5s	remaining: 2m 37s
60:	learn: 0.1689881	total: 21.9s	remaining: 2m 37s
61:	learn: 0.1678447	total: 22.2s	remaining: 2m 37s
62:	learn: 0.1665775	total: 22.6s	remaining: 2m 36s
63:	learn: 0.1656648	total: 22.9s	remaining: 2m 36s
64:	learn: 0.1644648	total: 23.3s	•
			<u> </u>
65:	learn: 0.1632299	total: 23.6s	remaining: 2m 35s
66:	learn: 0.1620600	total: 24s	remaining: 2m 35s
67:	learn: 0.1606628	total: 24.3s	remaining: 2m 34s
68:	learn: 0.1597673	total: 24.7s	remaining: 2m 34s
69:	learn: 0.1584505	total: 25s	remaining: 2m 33s
70:	learn: 0.1574385	total: 25.4s	remaining: 2m 33s
71:	learn: 0.1560611	total: 25.7s	remaining: 2m 32s
72:	learn: 0.1548860	total: 26.1s	remaining: 2m 32s
73:	learn: 0.1538699	total: 26.4s	remaining: 2m 32s
74:	learn: 0.1527074	total: 26.8s	remaining: 2m 31s
75 :	learn: 0.1517235	total: 27.1s	remaining: 2m 31s

76:	learn: 0.1507798	total: 27.5s	remaining: 2m 30s
70. 77:	learn: 0.1496310	total: 27.3s	remaining: 2m 30s
77. 78:	learn: 0.1486532	total: 27.83	remaining: 2m 30s
78: 79:	learn: 0.1476066	total: 28.5s	remaining: 2m 29s
80:	learn: 0.1464788	total: 28.9s	remaining: 2m 29s
81:	learn: 0.1454381	total: 29.2s	remaining: 2m 28s
82:	learn: 0.1443600	total: 29.6s	remaining: 2m 28s
83:	learn: 0.1433947	total: 29.9s	remaining: 2m 28s
84:	learn: 0.1423839	total: 30.3s	remaining: 2m 27s
85:	learn: 0.1412919	total: 30.6s	remaining: 2m 27s
	learn: 0.1404362		J
86:		total: 31s	remaining: 2m 26s
87:	learn: 0.1397225	total: 31.3s	remaining: 2m 26s
88:	learn: 0.1390082	total: 31.6s	remaining: 2m 26s
89:	learn: 0.1380805	total: 32s	remaining: 2m 25s
90:	learn: 0.1373213	total: 32.3s	remaining: 2m 25s
91:	learn: 0.1361060	total: 32.7s	remaining: 2m 24s
92:	learn: 0.1351528	total: 33s	remaining: 2m 24s
93:	learn: 0.1342429	total: 33.4s	remaining: 2m 24s
94:	learn: 0.1333956	total: 33.7s	remaining: 2m 23s
95:	learn: 0.1323039	total: 34.1s	remaining: 2m 23s
96:	learn: 0.1313609	total: 34.4s	remaining: 2m 23s
97:	learn: 0.1304442	total: 34.8s	remaining: 2m 22s
98:	learn: 0.1297292	total: 35.1s	remaining: 2m 22s
99:	learn: 0.1288803	total: 35.5s	remaining: 2m 21s
100:	learn: 0.1280573	total: 35.8s	remaining: 2m 21s
101:	learn: 0.1271428	total: 36.2s	remaining: 2m 21s
102:	learn: 0.1262506	total: 36.5s	remaining: 2m 20s
103:	learn: 0.1254945	total: 37s	remaining: 2m 20s
104:	learn: 0.1247912	total: 37.4s	remaining: 2m 20s
105:	learn: 0.1239144	total: 37.8s	remaining: 2m 20s
106:	learn: 0.1229362	total: 38.1s	remaining: 2m 20s
107:	learn: 0.1222271	total: 38.5s	remaining: 2m 19s
108:	learn: 0.1213963	total: 38.8s	remaining: 2m 19s
109: 110:	learn: 0.1204162 learn: 0.1197642	total: 39.2s	remaining: 2m 18s
110:	learn: 0.1197642	total: 39.5s total: 39.9s	remaining: 2m 18s
111:	learn: 0.1181825	total: 40.2s	remaining: 2m 18s remaining: 2m 17s
112:	learn: 0.1172701	total: 40.6s	remaining. 2m 17s remaining: 2m 17s
113. 114:	learn: 0.11/2/01	total: 40.9s	remaining: 2m 1/s
114. 115:	learn: 0.1157014	total: 41.3s	remaining: 2m 16s
115. 116:	learn: 0.1137014	total: 41.6s	remaining: 2m 16s
110: 117:	learn: 0.1142428	total: 42s	remaining: 2m 15s
118:	learn: 0.1135971	total: 42.3s	remaining: 2m 15s
119:	learn: 0.1129171	total: 42.7s	remaining: 2m 15s
120:	learn: 0.1122231	total: 43s	remaining: 2m 14s
121:	learn: 0.1114459	total: 43.4s	remaining: 2m 14s
121:	learn: 0.1114433	total: 43.4s	remaining: 2m 14s
123:	learn: 0.1096565	total: 44.1s	remaining: 2m 13s
124:	learn: 0.1089465	total: 44.4s	remaining: 2m 13s
125:	learn: 0.1081471	total: 44.8s	remaining: 2m 12s
126:	learn: 0.1001471	total: 45.1s	remaining: 2m 12s
127:	learn: 0.1079311	total: 45.4s	remaining: 2m 12s
128:	learn: 0.1063758	total: 45.8s	remaining: 2m 11s
129:	learn: 0.1056918	total: 46.1s	remaining: 2m 11s
130:	learn: 0.1050318	total: 46.5s	remaining: 2m 10s
131:	learn: 0.1045485	total: 46.8s	remaining: 2m 10s
132:	learn: 0.1038323	total: 47.2s	remaining: 2m 10s
133:	learn: 0.1032798	total: 47.5s	remaining: 2m 9s
134:	learn: 0.1025681	total: 47.9s	remaining: 2m 9s
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135: learn: 0.1018524 total: 48.2s remaining: 2m 9s 136: learn: 0.1002268 total: 48.9s remaining: 2m 7s 137: learn: 0.0996058 total: 49.0s remaining: 2m 7s 138: learn: 0.0989309 total: 49.0s remaining: 2m 7s 140: learn: 0.0977175 total: 50s remaining: 2m 7s 141: learn: 0.0965180 total: 50.3s remaining: 2m 6s 142: learn: 0.0960452 total: 51.7s remaining: 2m 6s 143: learn: 0.0954153 total: 51.7s remaining: 2m 5s 145: learn: 0.0942874 total: 51.7s remaining: 2m 5s 146: learn: 0.0942874 total: 52.4s remaining: 2m 4s 147: learn: 0.0926624 total: 53.5s remaining: 2m 4s 148: learn: 0.0926624 total: 54.7s remaining: 2m 4s 150: learn: 0.0926624 total: 54.7s remaining: 2m 4s 151: learn: 0.094663 total: 54.7s remaining: 2m 3s 152: learn: 0.0926624 total: 54.7s						
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138: Learn: 0.0998098	137:	learn: 0.1002268	total: 48.9s	remaining:	2m 8s	5
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181: learn: 0.0771722 total: 1m 4s remaining: 1m 52s 182: learn: 0.0767790 total: 1m 4s remaining: 1m 52s 183: learn: 0.0763213 total: 1m 5s remaining: 1m 51s 184: learn: 0.0759919 total: 1m 5s remaining: 1m 51s 185: learn: 0.0756241 total: 1m 5s remaining: 1m 51s 186: learn: 0.0750954 total: 1m 6s remaining: 1m 50s 187: learn: 0.0746024 total: 1m 6s remaining: 1m 50s 188: learn: 0.0742418 total: 1m 6s remaining: 1m 49s 189: learn: 0.0738338 total: 1m 7s remaining: 1m 49s 190: learn: 0.0728967 total: 1m 7s remaining: 1m 48s 192: learn: 0.0725822 total: 1m 8s remaining: 1m 48s				_		
182:learn:0.0767790total:1m 4sremaining:1m 52s183:learn:0.0763213total:1m 5sremaining:1m 51s184:learn:0.0759919total:1m 5sremaining:1m 51s185:learn:0.0756241total:1m 5sremaining:1m 51s186:learn:0.0750954total:1m 6sremaining:1m 50s187:learn:0.0746024total:1m 6sremaining:1m 50s188:learn:0.0742418total:1m 6sremaining:1m 49s189:learn:0.0738338total:1m 7sremaining:1m 49s190:learn:0.0733942total:1m 7sremaining:1m 48s191:learn:0.0728967total:1m 7sremaining:1m 48s192:learn:0.0725822total:1m 8sremaining:1m 48s				_		
183: learn: 0.0763213 total: 1m 5s remaining: 1m 51s 184: learn: 0.0759919 total: 1m 5s remaining: 1m 51s 185: learn: 0.0756241 total: 1m 5s remaining: 1m 51s 186: learn: 0.0750954 total: 1m 6s remaining: 1m 50s 187: learn: 0.0746024 total: 1m 6s remaining: 1m 50s 188: learn: 0.0742418 total: 1m 6s remaining: 1m 49s 189: learn: 0.0738338 total: 1m 7s remaining: 1m 49s 190: learn: 0.0728967 total: 1m 7s remaining: 1m 48s 192: learn: 0.0725822 total: 1m 8s remaining: 1m 48s				_		
184: learn: 0.0759919 total: 1m 5s remaining: 1m 51s 185: learn: 0.0756241 total: 1m 5s remaining: 1m 51s 186: learn: 0.0750954 total: 1m 6s remaining: 1m 50s 187: learn: 0.0746024 total: 1m 6s remaining: 1m 50s 188: learn: 0.0742418 total: 1m 6s remaining: 1m 49s 189: learn: 0.0738338 total: 1m 7s remaining: 1m 49s 190: learn: 0.0728967 total: 1m 7s remaining: 1m 48s 192: learn: 0.0725822 total: 1m 8s remaining: 1m 48s	182:	learn: 0.0767790		remaining:	1m 52	2s
185: learn: 0.0756241 total: 1m 5s remaining: 1m 51s 186: learn: 0.0750954 total: 1m 6s remaining: 1m 50s 187: learn: 0.0746024 total: 1m 6s remaining: 1m 50s 188: learn: 0.0742418 total: 1m 6s remaining: 1m 49s 189: learn: 0.0738338 total: 1m 7s remaining: 1m 49s 190: learn: 0.0733942 total: 1m 7s remaining: 1m 48s 191: learn: 0.0728967 total: 1m 7s remaining: 1m 48s 192: learn: 0.0725822 total: 1m 8s remaining: 1m 48s	183:	learn: 0.0763213	total: 1m 5s	remaining:	1m 51	ls
186: learn: 0.0750954 total: 1m 6s remaining: 1m 50s 187: learn: 0.0746024 total: 1m 6s remaining: 1m 50s 188: learn: 0.0742418 total: 1m 6s remaining: 1m 49s 189: learn: 0.0738338 total: 1m 7s remaining: 1m 49s 190: learn: 0.0733942 total: 1m 7s remaining: 1m 48s 191: learn: 0.0728967 total: 1m 7s remaining: 1m 48s 192: learn: 0.0725822 total: 1m 8s remaining: 1m 48s	184:	learn: 0.0759919	total: 1m 5s	remaining:	1m 51	ls
186: learn: 0.0750954 total: 1m 6s remaining: 1m 50s 187: learn: 0.0746024 total: 1m 6s remaining: 1m 50s 188: learn: 0.0742418 total: 1m 6s remaining: 1m 49s 189: learn: 0.0738338 total: 1m 7s remaining: 1m 49s 190: learn: 0.0733942 total: 1m 7s remaining: 1m 48s 191: learn: 0.0728967 total: 1m 7s remaining: 1m 48s 192: learn: 0.0725822 total: 1m 8s remaining: 1m 48s	185:	learn: 0.0756241	total: 1m 5s	remaining:	1m 51	1s
187:learn:0.0746024total:1m 6sremaining:1m 50s188:learn:0.0742418total:1m 6sremaining:1m 49s189:learn:0.0738338total:1m 7sremaining:1m 49s190:learn:0.0733942total:1m 7sremaining:1m 49s191:learn:0.0728967total:1m 7sremaining:1m 48s192:learn:0.0725822total:1m 8sremaining:1m 48s				_		
188: learn: 0.0742418 total: 1m 6s remaining: 1m 49s 189: learn: 0.0738338 total: 1m 7s remaining: 1m 49s 190: learn: 0.0733942 total: 1m 7s remaining: 1m 49s 191: learn: 0.0728967 total: 1m 7s remaining: 1m 48s 192: learn: 0.0725822 total: 1m 8s remaining: 1m 48s				_		
189:learn:0.0738338total:1m 7sremaining:1m 49s190:learn:0.0733942total:1m 7sremaining:1m 49s191:learn:0.0728967total:1m 7sremaining:1m 48s192:learn:0.0725822total:1m 8sremaining:1m 48s				_		
190:learn:0.0733942total:1m 7sremaining:1m 49s191:learn:0.0728967total:1m 7sremaining:1m 48s192:learn:0.0725822total:1m 8sremaining:1m 48s				_		
191: learn: 0.0728967 total: 1m 7s remaining: 1m 48s 192: learn: 0.0725822 total: 1m 8s remaining: 1m 48s						
192: learn: 0.0725822 total: 1m 8s remaining: 1m 48s				_		
G C C C C C C C C C C C C C C C C C C C						
193: learn: 0.0720906 total: 1m 8s remaining: 1m 48s						
	193:	learn: 0.0720906	total: 1m 8s	remaining:	1m 48	3s

```
194:
                                  total: 1m 9s
                                                   remaining: 1m 47s
        learn: 0.0717871
195:
        learn: 0.0712560
                                  total: 1m 9s
                                                   remaining: 1m 47s
                                                   remaining: 1m 47s
196:
        learn: 0.0709841
                                  total: 1m 9s
197:
        learn: 0.0705939
                                  total: 1m 10s
                                                   remaining: 1m 47s
198:
        learn: 0.0702597
                                  total: 1m 10s
                                                   remaining: 1m 46s
199:
        learn: 0.0697212
                                  total: 1m 10s
                                                   remaining: 1m 46s
200:
                                  total: 1m 11s
                                                   remaining: 1m 45s
        learn: 0.0693053
                                  total: 1m 11s
201:
        learn: 0.0687786
                                                   remaining: 1m 45s
202:
        learn: 0.0682325
                                  total: 1m 11s
                                                   remaining: 1m 45s
203:
        learn: 0.0679191
                                  total: 1m 12s
                                                   remaining: 1m 44s
204:
        learn: 0.0676041
                                  total: 1m 12s
                                                   remaining: 1m 44s
205:
        learn: 0.0670419
                                  total: 1m 12s
                                                   remaining: 1m 44s
        learn: 0.0667090
                                  total: 1m 13s
                                                   remaining: 1m 43s
206:
207:
        learn: 0.0663837
                                  total: 1m 13s
                                                   remaining: 1m 43s
                                  total: 1m 13s
                                                   remaining: 1m 43s
208:
        learn: 0.0660164
209:
        learn: 0.0657331
                                  total: 1m 14s
                                                   remaining: 1m 42s
210:
        learn: 0.0653348
                                  total: 1m 14s
                                                   remaining: 1m 42s
211:
        learn: 0.0648876
                                  total: 1m 15s
                                                   remaining: 1m 41s
                                  total: 1m 15s
212:
        learn: 0.0644668
                                                   remaining: 1m 41s
213:
        learn: 0.0641484
                                  total: 1m 15s
                                                   remaining: 1m 41s
214:
        learn: 0.0639039
                                  total: 1m 16s
                                                   remaining: 1m 40s
                                  total: 1m 16s
215:
        learn: 0.0635994
                                                   remaining: 1m 40s
216:
        learn: 0.0631977
                                  total: 1m 16s
                                                   remaining: 1m 40s
217:
        learn: 0.0628127
                                  total: 1m 17s
                                                   remaining: 1m 39s
                                  total: 1m 17s
218:
        learn: 0.0624225
                                                   remaining: 1m 39s
                                  total: 1m 17s
219:
        learn: 0.0621647
                                                   remaining: 1m 39s
                                                   remaining: 1m 38s
220:
        learn: 0.0618655
                                  total: 1m 18s
221:
                                  total: 1m 18s
        learn: 0.0615151
                                                   remaining: 1m 38s
222:
        learn: 0.0611357
                                  total: 1m 18s
                                                   remaining: 1m 37s
223:
        learn: 0.0607518
                                  total: 1m 19s
                                                   remaining: 1m 37s
224:
        learn: 0.0605915
                                  total: 1m 19s
                                                   remaining: 1m 37s
225:
        learn: 0.0602613
                                  total: 1m 19s
                                                   remaining: 1m 36s
226:
        learn: 0.0599058
                                  total: 1m 20s
                                                   remaining: 1m 36s
227:
        learn: 0.0595769
                                  total: 1m 20s
                                                   remaining: 1m 36s
228:
                                  total: 1m 20s
        learn: 0.0592886
                                                   remaining: 1m 35s
229:
                                  total: 1m 21s
        learn: 0.0588864
                                                   remaining: 1m 35s
230:
                                  total: 1m 21s
        learn: 0.0584725
                                                   remaining: 1m 35s
231:
                                  total: 1m 22s
        learn: 0.0581270
                                                   remaining: 1m 34s
                                  total: 1m 22s
232:
        learn: 0.0577305
                                                   remaining: 1m 34s
233:
                                  total: 1m 22s
                                                   remaining: 1m 34s
        learn: 0.0573741
234:
                                  total: 1m 23s
        learn: 0.0569924
                                                   remaining: 1m 33s
235:
        learn: 0.0567235
                                  total: 1m 23s
                                                   remaining: 1m 33s
236:
        learn: 0.0563748
                                  total: 1m 23s
                                                   remaining: 1m 32s
237:
        learn: 0.0560546
                                  total: 1m 24s
                                                   remaining: 1m 32s
                                  total: 1m 24s
238:
        learn: 0.0556899
                                                   remaining: 1m 32s
239:
        learn: 0.0553533
                                  total: 1m 24s
                                                   remaining: 1m 32s
240:
        learn: 0.0550764
                                  total: 1m 25s
                                                   remaining: 1m 31s
                                  total: 1m 25s
241:
        learn: 0.0547470
                                                   remaining: 1m 31s
242:
                                  total: 1m 26s
        learn: 0.0545235
                                                   remaining: 1m 31s
243:
                                  total: 1m 26s
        learn: 0.0543109
                                                   remaining: 1m 30s
244:
                                  total: 1m 26s
                                                   remaining: 1m 30s
        learn: 0.0540485
245:
                                  total: 1m 27s
                                                   remaining: 1m 29s
        learn: 0.0537842
246:
        learn: 0.0535458
                                  total: 1m 27s
                                                   remaining: 1m 29s
247:
        learn: 0.0532622
                                  total: 1m 27s
                                                   remaining: 1m 29s
248:
        learn: 0.0529061
                                  total: 1m 28s
                                                   remaining: 1m 28s
                                  total: 1m 28s
249:
        learn: 0.0525968
                                                   remaining: 1m 28s
250:
        learn: 0.0523412
                                  total: 1m 28s
                                                   remaining: 1m 28s
251:
        learn: 0.0521063
                                  total: 1m 29s
                                                   remaining: 1m 27s
252:
        learn: 0.0517903
                                  total: 1m 29s
                                                   remaining: 1m 27s
```

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253:
                                  total: 1m 29s
                                                   remaining: 1m 27s
        learn: 0.0514823
254:
        learn: 0.0512648
                                  total: 1m 30s
                                                   remaining: 1m 26s
255:
                                  total: 1m 30s
                                                   remaining: 1m 26s
        learn: 0.0509850
                                  total: 1m 30s
256:
        learn: 0.0507373
                                                   remaining: 1m 25s
257:
        learn: 0.0504869
                                  total: 1m 31s
                                                   remaining: 1m 25s
258:
        learn: 0.0502111
                                  total: 1m 31s
                                                   remaining: 1m 25s
259:
        learn: 0.0499931
                                  total: 1m 31s
                                                   remaining: 1m 24s
                                  total: 1m 32s
260:
        learn: 0.0497534
                                                   remaining: 1m 24s
261:
        learn: 0.0493378
                                  total: 1m 32s
                                                   remaining: 1m 24s
262:
        learn: 0.0490559
                                  total: 1m 33s
                                                   remaining: 1m 23s
263:
        learn: 0.0488939
                                  total: 1m 33s
                                                   remaining: 1m 23s
                                  total: 1m 33s
264:
        learn: 0.0485993
                                                   remaining: 1m 23s
265:
        learn: 0.0484132
                                  total: 1m 34s
                                                   remaining: 1m 22s
                                  total: 1m 34s
266:
        learn: 0.0481628
                                                   remaining: 1m 22s
                                  total: 1m 34s
                                                   remaining: 1m 22s
267:
        learn: 0.0478540
                                  total: 1m 35s
268:
        learn: 0.0475042
                                                   remaining: 1m 21s
                                  total: 1m 35s
269:
        learn: 0.0471497
                                                   remaining: 1m 21s
270:
        learn: 0.0469892
                                  total: 1m 35s
                                                   remaining: 1m 20s
        learn: 0.0467538
271:
                                  total: 1m 36s
                                                   remaining: 1m 20s
272:
        learn: 0.0464992
                                  total: 1m 36s
                                                   remaining: 1m 20s
273:
        learn: 0.0463012
                                  total: 1m 36s
                                                   remaining: 1m 19s
                                  total: 1m 37s
274:
        learn: 0.0461034
                                                   remaining: 1m 19s
275:
        learn: 0.0459110
                                  total: 1m 37s
                                                   remaining: 1m 19s
276:
        learn: 0.0456574
                                  total: 1m 37s
                                                   remaining: 1m 18s
277:
                                  total: 1m 38s
        learn: 0.0455272
                                                   remaining: 1m 18s
278:
                                  total: 1m 38s
        learn: 0.0453387
                                                   remaining: 1m 18s
279:
        learn: 0.0451489
                                  total: 1m 38s
                                                   remaining: 1m 17s
280:
                                  total: 1m 39s
        learn: 0.0449102
                                                   remaining: 1m 17s
281:
        learn: 0.0446049
                                  total: 1m 39s
                                                   remaining: 1m 16s
282:
        learn: 0.0443576
                                  total: 1m 39s
                                                   remaining: 1m 16s
283:
        learn: 0.0440934
                                  total: 1m 40s
                                                   remaining: 1m 16s
284:
        learn: 0.0438456
                                  total: 1m 40s
                                                   remaining: 1m 15s
285:
        learn: 0.0436507
                                  total: 1m 41s
                                                   remaining: 1m 15s
286:
        learn: 0.0434611
                                  total: 1m 41s
                                                   remaining: 1m 15s
                                  total: 1m 41s
287:
        learn: 0.0433445
                                                   remaining: 1m 15s
288:
                                  total: 1m 42s
        learn: 0.0431225
                                                   remaining: 1m 14s
                                  total: 1m 42s
289:
        learn: 0.0429119
                                                   remaining: 1m 14s
290:
                                  total: 1m 42s
        learn: 0.0427095
                                                   remaining: 1m 13s
291:
                                  total: 1m 43s
        learn: 0.0424718
                                                   remaining: 1m 13s
292:
                                  total: 1m 43s
                                                   remaining: 1m 13s
        learn: 0.0422742
293:
                                  total: 1m 43s
        learn: 0.0421081
                                                   remaining: 1m 12s
294:
        learn: 0.0418670
                                  total: 1m 44s
                                                   remaining: 1m 12s
295:
        learn: 0.0416547
                                  total: 1m 44s
                                                   remaining: 1m 12s
296:
        learn: 0.0414142
                                  total: 1m 45s
                                                   remaining: 1m 11s
297:
                                  total: 1m 45s
        learn: 0.0411381
                                                   remaining: 1m 11s
298:
        learn: 0.0409680
                                  total: 1m 45s
                                                   remaining: 1m 11s
299:
        learn: 0.0407938
                                  total: 1m 46s
                                                   remaining: 1m 10s
                                  total: 1m 46s
300:
        learn: 0.0405974
                                                   remaining: 1m 10s
301:
        learn: 0.0403818
                                  total: 1m 46s
                                                   remaining: 1m 10s
302:
                                  total: 1m 47s
        learn: 0.0402041
                                                   remaining: 1m 9s
303:
        learn: 0.0400476
                                  total: 1m 47s
                                                   remaining: 1m 9s
                                  total: 1m 47s
                                                   remaining: 1m 8s
304:
        learn: 0.0398645
305:
        learn: 0.0397178
                                  total: 1m 48s
                                                   remaining: 1m 8s
306:
        learn: 0.0394923
                                  total: 1m 48s
                                                   remaining: 1m 8s
307:
        learn: 0.0393652
                                  total: 1m 48s
                                                   remaining: 1m 7s
308:
        learn: 0.0391345
                                  total: 1m 49s
                                                   remaining: 1m 7s
309:
        learn: 0.0389879
                                  total: 1m 49s
                                                   remaining: 1m 7s
310:
        learn: 0.0387472
                                  total: 1m 49s
                                                   remaining: 1m 6s
311:
        learn: 0.0385482
                                  total: 1m 50s
                                                   remaining: 1m 6s
```

1312: learn: 0.0384157	242.	1 0 0204457	t-t-1. 1 FO-	• • • • • • • • • • • • • • • • • • • •	1 6 -
314: Learn: 0.0378549 total: 1m 51s remaining: 1m 4s 315: learn: 0.0378549 total: 1m 51s remaining: 1m 4s 316: learn: 0.0374694 total: 1m 51s remaining: 1m 4s 317: learn: 0.0374128 total: 1m 52s remaining: 1m 4s 318: learn: 0.0360870 total: 1m 53s remaining: 1m 3s 320: learn: 0.0366087 total: 1m 53s remaining: 1m 3s 321: learn: 0.0366687 total: 1m 53s remaining: 1m 2s 322: learn: 0.0366683 total: 1m 54s remaining: 1m 2s 322: learn: 0.0366441 total: 1m 54s remaining: 1m 2s 326: learn: 0.0360079 total: 1m 55s remaining: 1m 1s 327: learn: 0.0355137 total: 1m 55s remaining: 1m 1s 328: learn: 0.0351147 total: 1m 56s remaining: 1m remaining: 1m 330: learn: 0.0347780 total: 1m 57s remaining: 59.7s 331: learn: 0.0345692 total: 1m 58s remaining: 58.3s 337: learn: 0.0340	312:	learn: 0.0384157	total: 1m 50s	_	
315: learn: 0.0378694 total: 1m 51s remaining: 1m 4s 316: learn: 0.0376694 total: 1m 51s remaining: 1m 4s 317: learn: 0.0374728 total: 1m 52s remaining: 1m 4s 318: learn: 0.0372117 total: 1m 52s remaining: 1m 3s 319: learn: 0.0366070 total: 1m 53s remaining: 1m 3s 320: learn: 0.0366073 total: 1m 53s remaining: 1m 2s 321: learn: 0.0366073 total: 1m 54s remaining: 1m 2s 322: learn: 0.0366087 total: 1m 54s remaining: 1m 2s 324: learn: 0.0366087 total: 1m 54s remaining: 1m 2s 324: learn: 0.0366087 total: 1m 55s remaining: 1m 2s 325: learn: 0.0356333 total: 1m 55s remaining: 1m 1s 326: learn: 0.0355137 total: 1m 55s remaining: 1m 1s 327: learn: 0.0353127 total: 1m 56s remaining: 1m 339: learn: 0.0353127 total: 1m 56s remaining: 5m remaining: 1m 330: learn: 0.0340872 total: 1m 57s remaining: 59.7s 331: learn: 0.034780 total: 1m 58s remaining: 59.7s 332: learn: 0.0345892				_	
316: learn: 0.0376094 total: 1m 51s remaining: 1m 4s 317: learn: 0.0374728 total: 1m 52s remaining: 1m 4s 318: learn: 0.0374117 total: 1m 52s remaining: 1m 3s 320: learn: 0.0360070 total: 1m 53s remaining: 1m 3s 320: learn: 0.0366073 total: 1m 53s remaining: 1m 3s 321: learn: 0.03666073 total: 1m 53s remaining: 1m 3s 322: learn: 0.03666673 total: 1m 54s remaining: 1m 2s 322: learn: 0.03666673 total: 1m 54s remaining: 1m 2s 322: learn: 0.03666673 total: 1m 54s remaining: 1m 2s 324: learn: 0.0360079 total: 1m 54s remaining: 1m 2s 326: learn: 0.0360079 total: 1m 55s remaining: 1m 1s 326: learn: 0.0356363 total: 1m 55s remaining: 1m 1s 327: learn: 0.0356363 total: 1m 55s remaining: 1m 1s 329: learn: 0.0355137 total: 1m 56s remaining: 1m 329: learn: 0.0353127 total: 1m 56s remaining: 1m 3330: learn: 0.0347780 total: 1m 56s remaining: 1m 3331: learn: 0.0347780 total: 1m 57s remaining: 59 7s 331: learn: 0.0346092 total: 1m 57s remaining: 59 7s 334: learn: 0.0346092 total: 1m 58s remaining: 59 1s 335: learn: 0.0346092 total: 1m 58s remaining: 59 1s 336: learn: 0.0343154 total: 1m 59s remaining: 59 339: learn: 0.0334328 total: 1m 59s remaining: 57 35 338: learn: 0.0334328 total: 2m 5s remaining: 56 9s 339: learn: 0.0334328 total: 2m 5s remaining: 55 35 344: learn: 0.0324377 total: 2m 3s remaining: 55 3s 344: learn: 0.0332874 total: 2m 3s remaining: 55 3s 344: learn: 0.0324378 total: 2m 3s remaining: 55 3s 344: learn: 0.0332874 total: 2m 3s remaining: 55 3s 344: learn: 0.0332874 total: 2m 3s remaining: 55 3s 344: learn: 0.0324347 total: 2m 3s remaining: 54 3s 3s 1s 1s 1s 1s 1s 1s				_	
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354:learn:0.0313157total:2m 5sremaining:51.2s355:learn:0.0312136total:2m 5sremaining:50.9s356:learn:0.0310901total:2m 6sremaining:50.5s357:learn:0.0309575total:2m 6sremaining:50.2s358:learn:0.0308222total:2m 6sremaining:49.8s359:learn:0.0306236total:2m 7sremaining:49.5s360:learn:0.0304234total:2m 7sremaining:49.1s361:learn:0.0303081total:2m 7sremaining:48.8s362:learn:0.0301519total:2m 8sremaining:48.4s363:learn:0.0299058total:2m 8sremaining:47.7s365:learn:0.0299541total:2m 9sremaining:47.4s366:learn:0.0296258total:2m 9sremaining:47.7s367:learn:0.0294520total:2m 10sremaining:46.7s368:learn:0.0293112total:2m 10sremaining:46.3s369:learn:0.0291868total:2m 10sremaining:46s	353:	learn: 0.0314632	total: 2m 5s	_	
355: learn: 0.0312136 total: 2m 5s remaining: 50.9s 356: learn: 0.0310901 total: 2m 6s remaining: 50.5s 357: learn: 0.0309575 total: 2m 6s remaining: 50.2s 358: learn: 0.0308222 total: 2m 6s remaining: 49.8s 359: learn: 0.0306236 total: 2m 7s remaining: 49.5s 360: learn: 0.0304234 total: 2m 7s remaining: 49.1s 361: learn: 0.0303081 total: 2m 7s remaining: 48.8s 362: learn: 0.0301519 total: 2m 8s remaining: 48.4s 363: learn: 0.0300556 total: 2m 8s remaining: 48.1s 364: learn: 0.0299058 total: 2m 9s remaining: 47.7s 365: learn: 0.0297541 total: 2m 9s remaining: 47.4s 366: learn: 0.0296258 total: 2m 9s remaining: 47.4s 367: learn: 0.0294520 total: 2m 10s remaining: 46.7s 368: learn: 0.0293112 total: 2m 10s remaining: 46.3s 369: learn: 0.0291868 total: 2m 10s remaining: 46.3s		learn: 0.0313157	total: 2m 5s	_	
356: learn: 0.0310901 total: 2m 6s remaining: 50.5s 357: learn: 0.0309575 total: 2m 6s remaining: 50.2s 358: learn: 0.0308222 total: 2m 6s remaining: 49.8s 359: learn: 0.0306236 total: 2m 7s remaining: 49.5s 360: learn: 0.0304234 total: 2m 7s remaining: 49.1s 361: learn: 0.0303081 total: 2m 7s remaining: 48.8s 362: learn: 0.0301519 total: 2m 8s remaining: 48.4s 363: learn: 0.0300556 total: 2m 8s remaining: 48.1s 364: learn: 0.0299058 total: 2m 9s remaining: 47.7s 365: learn: 0.0297541 total: 2m 9s remaining: 47.4s 366: learn: 0.0296258 total: 2m 9s remaining: 47.4s 367: learn: 0.0294520 total: 2m 9s remaining: 47s 368: learn: 0.0293112 total: 2m 10s remaining: 46.3s 369: learn: 0.0291868 total: 2m 10s remaining: 46s				_	
357: learn: 0.0309575 total: 2m 6s remaining: 50.2s 358: learn: 0.0308222 total: 2m 6s remaining: 49.8s 359: learn: 0.0306236 total: 2m 7s remaining: 49.5s 360: learn: 0.0304234 total: 2m 7s remaining: 49.1s 361: learn: 0.0303081 total: 2m 7s remaining: 48.8s 362: learn: 0.0301519 total: 2m 8s remaining: 48.4s 363: learn: 0.0300556 total: 2m 8s remaining: 48.1s 364: learn: 0.0299058 total: 2m 9s remaining: 47.7s 365: learn: 0.0297541 total: 2m 9s remaining: 47.4s 366: learn: 0.0296258 total: 2m 9s remaining: 47.4s 367: learn: 0.0294520 total: 2m 10s remaining: 46.7s 368: learn: 0.0293112 total: 2m 10s remaining: 46.3s 369: learn: 0.0291868 total: 2m 10s remaining: 46.3s				_	
358: learn: 0.0308222 total: 2m 6s remaining: 49.8s 359: learn: 0.0306236 total: 2m 7s remaining: 49.5s 360: learn: 0.0304234 total: 2m 7s remaining: 49.1s 361: learn: 0.0303081 total: 2m 7s remaining: 48.8s 362: learn: 0.0301519 total: 2m 8s remaining: 48.4s 363: learn: 0.0300556 total: 2m 8s remaining: 48.1s 364: learn: 0.0299058 total: 2m 9s remaining: 47.7s 365: learn: 0.0297541 total: 2m 9s remaining: 47.4s 366: learn: 0.0296258 total: 2m 9s remaining: 47.4s 367: learn: 0.0294520 total: 2m 10s remaining: 46.7s 368: learn: 0.0293112 total: 2m 10s remaining: 46.3s 369: learn: 0.0291868 total: 2m 10s remaining: 46.3s				_	
359: learn: 0.0306236 total: 2m 7s remaining: 49.5s 360: learn: 0.0304234 total: 2m 7s remaining: 49.1s 361: learn: 0.0303081 total: 2m 7s remaining: 48.8s 362: learn: 0.0301519 total: 2m 8s remaining: 48.4s 363: learn: 0.0300556 total: 2m 8s remaining: 48.1s 364: learn: 0.0299058 total: 2m 9s remaining: 47.7s 365: learn: 0.0297541 total: 2m 9s remaining: 47.4s 366: learn: 0.0296258 total: 2m 9s remaining: 47s 367: learn: 0.0294520 total: 2m 10s remaining: 46.7s 368: learn: 0.0293112 total: 2m 10s remaining: 46.3s 369: learn: 0.0291868 total: 2m 10s remaining: 46s				_	
360:learn:0.0304234total:2m 7sremaining:49.1s361:learn:0.0303081total:2m 7sremaining:48.8s362:learn:0.0301519total:2m 8sremaining:48.4s363:learn:0.0300556total:2m 8sremaining:48.1s364:learn:0.0299058total:2m 9sremaining:47.7s365:learn:0.0297541total:2m 9sremaining:47.4s366:learn:0.0296258total:2m 9sremaining:47s367:learn:0.0294520total:2m 10sremaining:46.7s368:learn:0.0293112total:2m 10sremaining:46.3s369:learn:0.0291868total:2m 10sremaining:46s				_	
361: learn: 0.0303081 total: 2m 7s remaining: 48.8s 362: learn: 0.0301519 total: 2m 8s remaining: 48.4s 363: learn: 0.0300556 total: 2m 8s remaining: 48.1s 364: learn: 0.0299058 total: 2m 9s remaining: 47.7s 365: learn: 0.0297541 total: 2m 9s remaining: 47.4s 366: learn: 0.0296258 total: 2m 9s remaining: 47s 367: learn: 0.0294520 total: 2m 10s remaining: 46.7s 368: learn: 0.0293112 total: 2m 10s remaining: 46.3s 369: learn: 0.0291868 total: 2m 10s remaining: 46s				_	
362:learn:0.0301519total:2m 8sremaining:48.4s363:learn:0.0300556total:2m 8sremaining:48.1s364:learn:0.0299058total:2m 9sremaining:47.7s365:learn:0.0297541total:2m 9sremaining:47.4s366:learn:0.0296258total:2m 9sremaining:47s367:learn:0.0294520total:2m 10sremaining:46.7s368:learn:0.0293112total:2m 10sremaining:46.3s369:learn:0.0291868total:2m 10sremaining:46s				_	
363: learn: 0.0300556 total: 2m 8s remaining: 48.1s 364: learn: 0.0299058 total: 2m 9s remaining: 47.7s 365: learn: 0.0297541 total: 2m 9s remaining: 47.4s 366: learn: 0.0296258 total: 2m 9s remaining: 47s 367: learn: 0.0294520 total: 2m 10s remaining: 46.7s 368: learn: 0.0293112 total: 2m 10s remaining: 46.3s 369: learn: 0.0291868 total: 2m 10s remaining: 46s				_	
364:learn:0.0299058total:2m 9sremaining:47.7s365:learn:0.0297541total:2m 9sremaining:47.4s366:learn:0.0296258total:2m 9sremaining:47s367:learn:0.0294520total:2m 10sremaining:46.7s368:learn:0.0293112total:2m 10sremaining:46.3s369:learn:0.0291868total:2m 10sremaining:46s				_	
365:learn:0.0297541total:2m 9sremaining:47.4s366:learn:0.0296258total:2m 9sremaining:47s367:learn:0.0294520total:2m 10sremaining:46.7s368:learn:0.0293112total:2m 10sremaining:46.3s369:learn:0.0291868total:2m 10sremaining:46s				_	
366:learn:0.0296258total:2m 9sremaining:47s367:learn:0.0294520total:2m 10sremaining:46.7s368:learn:0.0293112total:2m 10sremaining:46.3s369:learn:0.0291868total:2m 10sremaining:46s				_	
367:learn: 0.0294520total: 2m 10sremaining: 46.7s368:learn: 0.0293112total: 2m 10sremaining: 46.3s369:learn: 0.0291868total: 2m 10sremaining: 46s				_	
368: learn: 0.0293112 total: 2m 10s remaining: 46.3s 369: learn: 0.0291868 total: 2m 10s remaining: 46s	366:			_	
369: learn: 0.0291868 total: 2m 10s remaining: 46s	367:	learn: 0.0294520	total: 2m 10s	remaining:	46.7s
· · · · · · · · · · · · · · · · · · ·	368:	learn: 0.0293112	total: 2m 10s	remaining:	46.3s
370: learn: 0.0290076 total: 2m 11s remaining: 45.6s	369:	learn: 0.0291868	total: 2m 10s	remaining:	46s
	370:	learn: 0.0290076	total: 2m 11s	remaining:	45.6s

```
371:
                                 total: 2m 11s
                                                   remaining: 45.3s
        learn: 0.0288844
372:
        learn: 0.0287346
                                 total: 2m 11s
                                                   remaining: 44.9s
373:
                                 total: 2m 12s
                                                   remaining: 44.5s
        learn: 0.0286306
                                 total: 2m 12s
374:
        learn: 0.0285503
                                                   remaining: 44.2s
375:
        learn: 0.0283574
                                 total: 2m 13s
                                                   remaining: 43.9s
376:
        learn: 0.0282229
                                 total: 2m 13s
                                                   remaining: 43.6s
                                                   remaining: 43.2s
377:
        learn: 0.0280705
                                 total: 2m 13s
378:
                                 total: 2m 14s
        learn: 0.0279551
                                                   remaining: 42.9s
379:
        learn: 0.0278229
                                 total: 2m 14s
                                                   remaining: 42.5s
380:
        learn: 0.0277246
                                 total: 2m 14s
                                                   remaining: 42.1s
381:
        learn: 0.0276095
                                 total: 2m 15s
                                                   remaining: 41.8s
                                 total: 2m 15s
382:
        learn: 0.0275061
                                                   remaining: 41.4s
383:
        learn: 0.0273935
                                 total: 2m 15s
                                                   remaining: 41.1s
                                 total: 2m 16s
384:
        learn: 0.0272849
                                                   remaining: 40.7s
                                 total: 2m 16s
385:
        learn: 0.0271924
                                                   remaining: 40.4s
386:
        learn: 0.0270618
                                 total: 2m 17s
                                                   remaining: 40s
387:
        learn: 0.0269696
                                 total: 2m 17s
                                                   remaining: 39.6s
                                                   remaining: 39.3s
388:
        learn: 0.0268384
                                 total: 2m 17s
                                 total: 2m 18s
389:
        learn: 0.0267297
                                                   remaining: 38.9s
390:
        learn: 0.0266309
                                 total: 2m 18s
                                                   remaining: 38.6s
391:
        learn: 0.0264696
                                 total: 2m 18s
                                                   remaining: 38.2s
                                 total: 2m 19s
                                                   remaining: 37.9s
392:
        learn: 0.0262888
393:
        learn: 0.0261609
                                 total: 2m 19s
                                                   remaining: 37.5s
394:
        learn: 0.0260669
                                 total: 2m 19s
                                                   remaining: 37.2s
395:
                                 total: 2m 20s
        learn: 0.0258874
                                                   remaining: 36.8s
                                 total: 2m 20s
                                                   remaining: 36.5s
396:
        learn: 0.0258192
397:
        learn: 0.0257017
                                 total: 2m 20s
                                                   remaining: 36.1s
398:
                                 total: 2m 21s
        learn: 0.0255962
                                                   remaining: 35.8s
399:
        learn: 0.0255140
                                 total: 2m 21s
                                                   remaining: 35.4s
400:
        learn: 0.0254157
                                 total: 2m 21s
                                                   remaining: 35.1s
401:
        learn: 0.0253215
                                 total: 2m 22s
                                                   remaining: 34.7s
402:
        learn: 0.0251929
                                 total: 2m 22s
                                                   remaining: 34.4s
                                 total: 2m 23s
403:
        learn: 0.0250393
                                                   remaining: 34s
404:
        learn: 0.0249380
                                 total: 2m 23s
                                                   remaining: 33.6s
405:
        learn: 0.0248334
                                 total: 2m 23s
                                                   remaining: 33.3s
                                 total: 2m 24s
406:
        learn: 0.0247173
                                                   remaining: 32.9s
                                 total: 2m 24s
407:
        learn: 0.0246282
                                                   remaining: 32.6s
                                 total: 2m 24s
408:
        learn: 0.0245555
                                                   remaining: 32.2s
                                 total: 2m 25s
409:
        learn: 0.0244552
                                                   remaining: 31.9s
410:
                                 total: 2m 25s
        learn: 0.0243477
                                                   remaining: 31.5s
411:
                                 total: 2m 25s
        learn: 0.0242761
                                                   remaining: 31.2s
412:
        learn: 0.0241691
                                 total: 2m 26s
                                                   remaining: 30.8s
413:
        learn: 0.0240616
                                 total: 2m 26s
                                                   remaining: 30.5s
414:
        learn: 0.0239978
                                 total: 2m 26s
                                                   remaining: 30.1s
415:
                                 total: 2m 27s
        learn: 0.0238934
                                                   remaining: 29.7s
416:
        learn: 0.0238150
                                 total: 2m 27s
                                                   remaining: 29.4s
417:
        learn: 0.0237083
                                 total: 2m 28s
                                                   remaining: 29s
                                 total: 2m 28s
418:
        learn: 0.0236277
                                                   remaining: 28.7s
419:
                                 total: 2m 28s
        learn: 0.0235295
                                                   remaining: 28.4s
420:
        learn: 0.0234622
                                 total: 2m 29s
                                                   remaining: 28s
421:
                                 total: 2m 29s
                                                   remaining: 27.7s
        learn: 0.0234029
422:
                                 total: 2m 29s
        learn: 0.0233002
                                                   remaining: 27.3s
423:
        learn: 0.0232118
                                 total: 2m 30s
                                                   remaining: 26.9s
                                 total: 2m 30s
424:
        learn: 0.0231183
                                                   remaining: 26.6s
425:
        learn: 0.0230426
                                 total: 2m 31s
                                                   remaining: 26.2s
                                 total: 2m 31s
426:
        learn: 0.0229105
                                                   remaining: 25.9s
427:
        learn: 0.0228084
                                 total: 2m 31s
                                                   remaining: 25.5s
428:
        learn: 0.0227235
                                 total: 2m 32s
                                                   remaining: 25.2s
                                 total: 2m 32s
429:
        learn: 0.0226001
                                                   remaining: 24.8s
```

431: learn: 0.0224924 total: 2m 32s remaining: 24.5s 432: learn: 0.0223956 total: 2m 33s remaining: 24.1s 432: learn: 0.0223442 total: 2m 33s remaining: 23.7s 433: learn: 0.0222442 total: 2m 33s remaining: 23.7s 434: learn: 0.0221281 total: 2m 34s remaining: 23.4s 435: learn: 0.0221294 total: 2m 34s remaining: 22.7s 436: learn: 0.0221297 total: 2m 34s remaining: 22.7s 437: learn: 0.0218366 total: 2m 35s remaining: 22.7s 438: learn: 0.0218366 total: 2m 35s remaining: 21.6s 439: learn: 0.0216938 total: 2m 35s remaining: 21.6s 439: learn: 0.0216938 total: 2m 35s remaining: 20.5s 440: learn: 0.0216938 total: 2m 36s remaining: 20.5s 441: learn: 0.0213637 total: 2m 36s remaining: 20.5s 442: learn: 0.0213637 total: 2m 36s remaining: 20.2s 443: learn: 0.0213637 total: 2m 37s remaining: 19.8s 444: learn: 0.0211999 total: 2m 37s remaining: 19.8s 444: learn: 0.0211999 total: 2m 37s remaining: 19.1s 446: learn: 0.0211099 total: 2m 37s remaining: 19.1s 446: learn: 0.0210007 total: 2m 38s remaining: 18.8s 448: learn: 0.0209116 total: 2m 38s remaining: 18.7s 450: learn: 0.0209559 total: 2m 39s remaining: 17.7s 450: learn: 0.0207587 total: 2m 39s remaining: 17.7s 451: learn: 0.0206553 total: 2m 40s remaining: 17.8s 452: learn: 0.0208342 total: 2m 39s remaining: 17.8s 453: learn: 0.02094837 total: 2m 40s remaining: 17.8s 454: learn: 0.02094837 total: 2m 40s remaining: 15.6s 453: learn: 0.0202027 total: 2m 41s remaining: 15.6s 456: learn: 0.02093247 total: 2m 42s remaining: 15.6s 457: learn: 0.02093247 total: 2m 42s remaining: 15.6s 466: learn: 0.0199805 total: 2m 42s remaining: 12.7s 466: learn: 0.0199805 total: 2m 42s remaining: 12.7s 467: learn: 0.0199805 total: 2m 42s remaining: 12.7s 468: learn: 0.0199805 total: 2m 42s remaining: 12.7s 469: learn: 0.0199805 total: 2m 42s remaining: 12.7s 460: learn: 0.0198056 total: 2m 43s remaining: 12.7s 461: learn: 0.0198056 total: 2m 43s remaining: 12.7s 462: learn: 0.0198056 total: 2m 45s remaining: 12.7s 463: learn: 0.0198056 total: 2m 45s remaining: 12.7s 464: learn: 0.0198056 total:					
433: learn: 0.0222442 total: 2m 33s remaining: 23.7s 433: learn: 0.0221442 total: 2m 34s remaining: 23.7s 434: learn: 0.0221204 total: 2m 34s remaining: 23.7s 435: learn: 0.0221272 total: 2m 34s remaining: 22.7s 436: learn: 0.0212971 total: 2m 34s remaining: 22.7s 437: learn: 0.021366 total: 2m 35s remaining: 21.6s 439: learn: 0.0216938 total: 2m 35s remaining: 21.6s 439: learn: 0.0216938 total: 2m 36s remaining: 21.6s 440: learn: 0.0216938 total: 2m 36s remaining: 20.9s 441: learn: 0.021661 total: 2m 36s remaining: 20.9s 442: learn: 0.0214470 total: 2m 36s remaining: 20.9s 443: learn: 0.0213637 total: 2m 37s remaining: 19.1s 444: learn: 0.0213637 total: 2m 37s remaining: 19.5s 445: learn: 0.0211999 total: 2m 37s remaining: 19.1s 446: learn: 0.0211999 total: 2m 37s remaining: 19.1s 447: learn: 0.0211999 total: 2m 38s remaining: 19.1s 448: learn: 0.0211999 total: 2m 38s remaining: 18.4s 448: learn: 0.020907 total: 2m 38s remaining: 18.4s 449: learn: 0.0208342 total: 2m 39s remaining: 17.7s 450: learn: 0.0208342 total: 2m 39s remaining: 17.4s 451: learn: 0.0208553 total: 2m 40s remaining: 17.4s 452: learn: 0.0208559 total: 2m 40s remaining: 16.3s 453: learn: 0.02084067 total: 2m 40s remaining: 16.3s 454: learn: 0.02084067 total: 2m 41s remaining: 15.9s 455: learn: 0.02082087 total: 2m 41s remaining: 15.2s 457: learn: 0.02082087 total: 2m 42s remaining: 15.2s 459: learn: 0.02082087 total: 2m 42s remaining: 13.1s 463: learn: 0.0199056 total: 2m 42s remaining: 13.5s 464: learn: 0.0199056 total: 2m 42s remaining: 13.5s 466: learn: 0.0199385 total: 2m 42s remaining: 13.5s 467: learn: 0.0198056 total: 2m 43s remaining: 13.5s 468: learn: 0.0198056 total: 2m 43s remaining: 13.5s 469: learn: 0.0198056 total: 2m 43s remaining: 13.5s 460: learn: 0.0198056 total: 2m 45s remaining: 13.5s 461: learn: 0.0198056 total: 2m 45s remaining: 13.5s 462: learn: 0.0198056 total: 2m 45s remaining: 13.5s 463: learn: 0.0198058 total: 2m 45s remaining: 13.5s 464: learn: 0.0198056 total: 2m 45s remaining: 10.6s 471: learn: 0.0198056 total: 2	430:	learn: 0.0225196	total: 2m 32s	remaining:	24.5s
433: learn: 0.0221851 total: 2m 33s remaining: 23.4s 434: learn: 0.0221851 total: 2m 34s remaining: 22.7s 436: learn: 0.0221024 total: 2m 34s remaining: 22.7s 436: learn: 0.0219371 total: 2m 35s remaining: 22.7s 437: learn: 0.0218366 total: 2m 35s remaining: 21.3s 449: learn: 0.0216938 total: 2m 35s remaining: 21.3s 440: learn: 0.0216938 total: 2m 35s remaining: 21.3s 440: learn: 0.0216461 total: 2m 36s remaining: 20.9s 441: learn: 0.0213637 total: 2m 36s remaining: 20.9s 441: learn: 0.0214470 total: 2m 36s remaining: 20.9s 443: learn: 0.0213637 total: 2m 37s remaining: 19.8s 443: learn: 0.0212737 total: 2m 37s remaining: 19.8s 444: learn: 0.0212999 total: 2m 37s remaining: 19.5s 445: learn: 0.0211999 total: 2m 37s remaining: 19.5s 446: learn: 0.0211089 total: 2m 38s remaining: 19.5s 447: learn: 0.0210007 total: 2m 38s remaining: 18.4s 19.4s 19.4	431:	learn: 0.0224294	total: 2m 33s	remaining:	24.1s
434: learn: 0.0221821	432:	learn: 0.0223056	total: 2m 33s	remaining:	23.7s
435: learn: 0.0221204	433:	learn: 0.0222442	total: 2m 33s	remaining:	23.4s
435: learn: 0.0221204	434:	learn: 0.0221851	total: 2m 34s	remaining:	23s
436: learn: 0.0210371 total: 2m 34s remaining: 22.3s 437: learn: 0.021371 total: 2m 35s remaining: 22.3s 438: learn: 0.0213636 total: 2m 35s remaining: 21.6s 439: learn: 0.0216938 total: 2m 35s remaining: 21.6s 440: learn: 0.0215661 total: 2m 36s remaining: 20.5s 441: learn: 0.0213637 total: 2m 36s remaining: 20.5s 442: learn: 0.0214470 total: 2m 36s remaining: 20.5s 443: learn: 0.0213637 total: 2m 37s remaining: 19.8s 444: learn: 0.0211939 total: 2m 37s remaining: 19.8s 444: learn: 0.0211999 total: 2m 37s remaining: 19.1s 446: learn: 0.0211059 total: 2m 37s remaining: 19.1s 446: learn: 0.0211059 total: 2m 38s remaining: 19.1s 447: learn: 0.0210907 total: 2m 38s remaining: 18.8s 448: learn: 0.0209116 total: 2m 39s remaining: 18.1s 449: learn: 0.0208342 total: 2m 39s remaining: 17.7s 450: learn: 0.0208342 total: 2m 39s remaining: 17.7s 451: learn: 0.0205569 total: 2m 40s remaining: 17.4s 452: learn: 0.0205559 total: 2m 40s remaining: 17.4s 452: learn: 0.0205559 total: 2m 40s remaining: 16.6s 453: learn: 0.02040467 total: 2m 41s remaining: 15.9s 455: learn: 0.0202447 total: 2m 41s remaining: 15.9s 456: learn: 0.0202427 total: 2m 41s remaining: 15.6s 457: learn: 0.02020487 total: 2m 42s remaining: 14.5s 458: learn: 0.02020487 total: 2m 42s remaining: 14.5s 459: learn: 0.0201104 total: 2m 42s remaining: 14.5s 460: learn: 0.0199182 total: 2m 42s remaining: 13.1s 461: learn: 0.0198056 total: 2m 43s remaining: 13.5s 462: learn: 0.0198056 total: 2m 43s remaining: 13.5s 463: learn: 0.0198056 total: 2m 43s remaining: 13.5s 464: learn: 0.0198056 total: 2m 43s remaining: 13.5s 465: learn: 0.0198056 total: 2m 43s remaining: 13.5s 466: learn: 0.0198056 total: 2m 43s remaining: 13.5s 467: learn: 0.0198056 total: 2m 43s remaining: 13.5s 468: learn: 0.0198056 total: 2m 44s remaining: 13.5s 468: learn: 0.0198056 total: 2m 45s remaining: 13.5s 469: learn: 0.0198056 total: 2		learn: 0.0221204		_	
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487: learn: 0.0180219 total: 2m 52s remaining: 4.25s				_	
8				_	
488: learn: 0.0179531 total: 2m 53s remaining: 3.89s				_	
	488:	learn: 0.0179531	total: 2m 53s	remaining:	3.89s

```
489:
                                 total: 2m 53s
                                                  remaining: 3.54s
        learn: 0.0178942
490:
        learn: 0.0177842
                                 total: 2m 53s
                                                  remaining: 3.19s
491:
                                 total: 2m 54s
        learn: 0.0177295
                                                  remaining: 2.83s
                                 total: 2m 54s
492:
        learn: 0.0176467
                                                  remaining: 2.48s
493:
        learn: 0.0175775
                                 total: 2m 54s
                                                  remaining: 2.12s
494:
        learn: 0.0175222
                                 total: 2m 55s
                                                  remaining: 1.77s
495:
                                 total: 2m 55s
        learn: 0.0174632
                                                  remaining: 1.42s
496:
                                 total: 2m 55s
        learn: 0.0174084
                                                  remaining: 1.06s
497:
        learn: 0.0173593
                                 total: 2m 56s
                                                  remaining: 708ms
498:
        learn: 0.0173189
                                 total: 2m 56s
                                                  remaining: 354ms
499:
        learn: 0.0172473
                                 total: 2m 56s
                                                  remaining: Ous
      learning rate=0.3, 12 leaf reg=10, iterations=500, depth=10, ctr b
[CV]
order_count=50, border_count=10, score=0.8407758611456662, total= 3.1min
[CV] learning rate=0.3, 12 leaf reg=10, iterations=500, depth=10, ctr bo
rder count=50, border count=10
        learn: 0.4795174
                                 total: 369ms
0:
                                                  remaining: 3m 4s
1:
        learn: 0.3846598
                                 total: 735ms
                                                  remaining: 3m 2s
2:
        learn: 0.3368874
                                 total: 1.09s
                                                  remaining: 3m 1s
3:
        learn: 0.3141566
                                 total: 1.44s
                                                  remaining: 2m 59s
4:
        learn: 0.3003391
                                 total: 1.79s
                                                  remaining: 2m 57s
5:
        learn: 0.2904337
                                 total: 2.14s
                                                  remaining: 2m 56s
6:
        learn: 0.2832643
                                 total: 2.49s
                                                  remaining: 2m 55s
7:
        learn: 0.2779408
                                 total: 2.83s
                                                  remaining: 2m 54s
8:
        learn: 0.2728311
                                 total: 3.18s
                                                  remaining: 2m 53s
9:
        learn: 0.2689841
                                 total: 3.54s
                                                  remaining: 2m 53s
                                                  remaining: 2m 52s
10:
        learn: 0.2656690
                                 total: 3.88s
11:
        learn: 0.2617531
                                 total: 4.23s
                                                  remaining: 2m 51s
12:
        learn: 0.2581763
                                 total: 4.57s
                                                  remaining: 2m 51s
13:
        learn: 0.2546626
                                 total: 4.92s
                                                  remaining: 2m 50s
14:
        learn: 0.2519842
                                 total: 5.26s
                                                  remaining: 2m 50s
15:
        learn: 0.2490118
                                                  remaining: 2m 49s
                                 total: 5.61s
16:
        learn: 0.2462735
                                 total: 5.96s
                                                  remaining: 2m 49s
17:
        learn: 0.2433152
                                 total: 6.31s
                                                  remaining: 2m 49s
18:
        learn: 0.2406456
                                 total: 6.66s
                                                  remaining: 2m 48s
19:
        learn: 0.2379934
                                 total: 7.01s
                                                  remaining: 2m 48s
20:
        learn: 0.2356167
                                 total: 7.36s
                                                  remaining: 2m 47s
21:
                                 total: 7.72s
        learn: 0.2330443
                                                  remaining: 2m 47s
22:
        learn: 0.2303966
                                 total: 8.07s
                                                  remaining: 2m 47s
23:
        learn: 0.2280566
                                 total: 8.42s
                                                  remaining: 2m 46s
24:
                                                  remaining: 2m 47s
        learn: 0.2258642
                                 total: 8.83s
25:
                                 total: 9.26s
                                                  remaining: 2m 48s
        learn: 0.2235296
26:
        learn: 0.2214149
                                 total: 9.68s
                                                  remaining: 2m 49s
27:
        learn: 0.2194477
                                 total: 10s
                                                  remaining: 2m 49s
28:
        learn: 0.2173419
                                 total: 10.4s
                                                  remaining: 2m 48s
29:
        learn: 0.2153530
                                 total: 10.7s
                                                  remaining: 2m 48s
30:
        learn: 0.2133119
                                 total: 11.1s
                                                  remaining: 2m 47s
31:
        learn: 0.2110663
                                 total: 11.4s
                                                  remaining: 2m 47s
32:
        learn: 0.2093467
                                 total: 11.8s
                                                  remaining: 2m 46s
33:
        learn: 0.2073088
                                 total: 12.1s
                                                  remaining: 2m 46s
34:
                                                  remaining: 2m 45s
        learn: 0.2054364
                                 total: 12.5s
35:
        learn: 0.2035823
                                 total: 12.8s
                                                  remaining: 2m 45s
36:
                                 total: 13.2s
                                                  remaining: 2m 45s
        learn: 0.2018403
37:
        learn: 0.2004894
                                 total: 13.5s
                                                  remaining: 2m 44s
38:
        learn: 0.1987377
                                 total: 13.9s
                                                  remaining: 2m 44s
39:
        learn: 0.1967654
                                 total: 14.2s
                                                  remaining: 2m 43s
40:
        learn: 0.1954366
                                 total: 14.6s
                                                  remaining: 2m 43s
41:
        learn: 0.1939648
                                 total: 14.9s
                                                  remaining: 2m 42s
42:
        learn: 0.1926475
                                 total: 15.3s
                                                  remaining: 2m 42s
43:
        learn: 0.1912294
                                 total: 15.6s
                                                  remaining: 2m 41s
```

44:	learn:	0.1896389	total:	16s	remaining:	2m	41s
45:		0.1882384	total:		remaining:		41s
46:		0.1866056	total:		remaining:		40s
47:		0.1852460	total:		remaining:		40s
48:		0.1839023	total:		remaining:		40s
49:	learn:	0.1825597	total:	17.8s	remaining:	2m	40s
50:	learn:	0.1811905	total:	18.3s	remaining:	2m	41s
51:	learn:	0.1795928	total:	18.9s	remaining:	2m	42s
52:	learn:	0.1778736	total:	19.4s	remaining:	2m	43s
53:	learn:	0.1761470	total:	19.8s	remaining:	2m	43s
54:	learn:	0.1746260	total:	20.2s	remaining:	2m	43s
55:	learn:	0.1732223	total:	20.5s	remaining:	2m	42s
56:	learn:	0.1716813	total:	20.9s	remaining:	2m	42s
57:	learn:	0.1706711	total:	21.3s	remaining:	2m	42s
58:	learn:	0.1692369	total:	21.8s	remaining:	2m	43s
59:	learn:	0.1677829	total:	22.2s	remaining:	2m	43s
60:	learn:	0.1666286	total:	22.7s	remaining:	2m	43s
61:	learn:	0.1655453	total:	23.1s	remaining:	2m	42s
62:	learn:	0.1641407	total:	23.4s	remaining:	2m	42s
63:	learn:	0.1628526	total:	23.8s	remaining:	2m	42s
64:	learn:	0.1617888	total:	24.2s	remaining:	2m	41s
65:	learn:	0.1605259	total:	24.5s	remaining:	2m	41s
66:	learn:	0.1594168	total:	24.9s	remaining:	2m	41s
67:	learn:	0.1583802	total:	25.4s	remaining:	2m	41s
68:	learn:	0.1573755	total:	25.8s	remaining:	2m	41s
69:	learn:	0.1563791	total:	26.2s	remaining:	2m	40s
70:	learn:	0.1551575	total:	26.5s	remaining:	2m	40s
71:	learn:	0.1540588	total:	26.9s	remaining:	2m	39s
72:		0.1530357	total:	27.2s	remaining:		39s
73:		0.1520737	total:		remaining:		38s
74:		0.1509691	total:		remaining:		38s
75:		0.1497639	total:		remaining:		
76:		0.1488329	total:		remaining:		37s
77:		0.1479809	total:		remaining:		36s
78:		0.1468455	total:		remaining:		36s
79:		0.1457091	total:		remaining:		35s
80:		0.1445627	total:		remaining:		35s
81:		0.1435022	total:		remaining:		35s
82:		0.1427723	total:		remaining:		34s
83:		0.1417488	total:		remaining:		34s
84:		0.1406132		31.5s	remaining:		33s
85:		0.1396289	total:		remaining:		33s
86:		0.1386873	total:		remaining:		32s
87:		0.1379587	total:		remaining:		
88:		0.1369789	total:		remaining:		31s
89:		0.1361419		33.2s	remaining:		31s
90:		0.1351218	total:		remaining:		30s
91:		0.1340111	total:		remaining:		30s
92:		0.1329689	total:		remaining:		30s
93:		0.1319586	total:		remaining:		29s
94:		0.1309840	total:	35s	remaining:		29s
95:		0.1299787	total:		remaining:		28s
96:		0.1291379	total:		remaining:		28s
97:		0.1281772		36.1s	remaining:		27s
98:		0.1272694	total:		remaining:		27s
99:		0.1265133		36.8s	remaining:		27s
100:		0.1254667		37.1s	remaining:		26s
101:		0.1245234	total:		remaining:		26s
102:	⊥earn:	0.1237569	total:	3/.95	remaining:	∠m	26S

103:	learn: 0.1229254	total:	20 2c	nomaining	2m	25.0
103.	learn: 0.1219383	total:		<pre>remaining: remaining:</pre>		25s
	learn: 0.1212322	total:				
105:				remaining:		24s
106:	learn: 0.1202984	total:		remaining:		24s
107:	learn: 0.1195904	total:		remaining:		23s
108:	learn: 0.1189050	total:		remaining:		23s
109:	learn: 0.1183008	total:		remaining:		23s
110:	learn: 0.1173911	total: 4		remaining:		22s
111:	learn: 0.1168259	total: 4		remaining:		22s
112:	learn: 0.1160431	total: 4		remaining:		22s
113:	learn: 0.1150947	total: 4		remaining:		22s
114:	learn: 0.1144256	total: 4	42.3s	remaining:	2m	21s
115:	learn: 0.1136218	total: 4	42.7s	remaining:		21s
116:	learn: 0.1130919	total: 4	43s	remaining:	2m	20s
117:	learn: 0.1122636	total: 4	43.4s	remaining:	2m	20s
118:	learn: 0.1114477	total: 4	43.8s	remaining:	2m	20s
119:	learn: 0.1107753	total: 4	44.1s	remaining:	2m	19s
120:	learn: 0.1100325	total: 4	44.5s	remaining:	2m	19s
121:	learn: 0.1093970	total: 4	44.8s	remaining:		18s
122:	learn: 0.1085923	total: 4	45.2s	remaining:		18s
123:	learn: 0.1080072	total:		remaining:		17s
124:	learn: 0.1072666	total:		remaining:		17s
125:	learn: 0.1064445	total:		remaining:		17s
126:	learn: 0.1059009	total:		remaining:		16s
127:	learn: 0.1053305	total:		remaining:		16s
127:	learn: 0.1031313	total:		remaining:		15s
128. 129:	learn: 0.1039744	total:		remaining:		15s
130:	learn: 0.1033/44	total:		_		15s
				remaining:		
131:	learn: 0.1028286	total:		remaining:		14s
132:	learn: 0.1022359	total:		remaining:		14s
133:	learn: 0.1016806	total:		remaining:		
134:	learn: 0.1011593	total:		remaining:		
135:	learn: 0.1004780	total:		remaining:		13s
136:	learn: 0.0997182	total:		remaining:		12s
137:	learn: 0.0988592	total:		remaining:		12s
138:	learn: 0.0982320	total:		remaining:		11s
139:	learn: 0.0975333	total:		remaining:		11s
140:	learn: 0.0967294	total:		remaining:		11s
141:	learn: 0.0962697	total:	51.8s	remaining:		10s
142:	learn: 0.0957834	total:	52.2s	remaining:		10s
143:	learn: 0.0951986	total:	52.5s	remaining:	2m	9s
144:	learn: 0.0946850	total:	52 . 9s	remaining:	2m	9s
145:	learn: 0.0940350	total:	53.2s	remaining:	2m	9s
146:	learn: 0.0934729	total:	53.6s	remaining:	2m	8s
147:	learn: 0.0927780	total:	53 . 9s	remaining:	2m	8s
148:	learn: 0.0921727	total:	54.3s	remaining:	2m	7s
149:	learn: 0.0916157	total:	54.6s	remaining:		
150:	learn: 0.0910777	total:	55s	remaining:		
151:	learn: 0.0904643	total:		remaining:		
152:	learn: 0.0899346	total:		remaining:	2m	
153:	learn: 0.0893410		56s	remaining:	2m	
154:	learn: 0.0889518	total:		remaining:		
155:	learn: 0.0884388	total:		remaining:	2m	
155. 156:	learn: 0.0878676	total:		remaining:	2m	
150. 157:	learn: 0.0874181	total:		remaining.		
157: 158:	learn: 0.0869528			0		
			58s	remaining:	2m	
159:	learn: 0.0865230	total:		remaining:	2m	
160:	learn: 0.0859761	total:		remaining:	2m	
161:	learn: 0.0853590	total:	595	remaining:	∠m	٥S

162:	learn·	0.0847181	total:	59 <i>1</i> s	remaining:	2m 2s
163:		0.0842233	total:		remaining:	
164:		0.0835399	total:	1m	remaining:	
165:		0.0830479	total:	1m	remaining:	
166:		0.0825646	total:		remaining:	
167:		0.0821118	total:	1m 1s	remaining:	2m 1s
168:		0.0815259	total:		remaining:	2m 13
169:		0.0810340	total:	1m 1s	remaining:	
109. 170:		0.0806150	total:	1m 2s	remaining:	
170. 171:		0.0801447	total:		remaining:	
171. 172:		0.0795260	total:	1m 2s	remaining.	1m 59s
172. 173:		0.0790885	total:	1m 3s	•	1m 58s
173. 174:		0.0786352	total:		<pre>remaining: remaining:</pre>	
174. 175:		0.0783141	total:	1m 4s	•	
175. 176:		0.0778289	total:		remaining:	
176. 177:		0.0772453			remaining:	1m 57s 1m 57s
177. 178:		0.0766672		1m 4s	remaining:	
			total:	1m 5s	remaining:	1m 56s
179:		0.0762370	total:		remaining:	
180:		0.0757745	total:	1m 5s	remaining:	
181:		0.0753067	total:	1m 6s	remaining:	
182:		0.0746746	total:	1m 6s	remaining:	1m 55s
183:		0.0742957	total:	1m 6s	remaining:	1m 54s
184:		0.0739952	total:	1m 7s	remaining:	
185:		0.0736786	total:	1m 7s	remaining:	1m 54s
186:		0.0732704	total:	1m 7s	remaining:	1m 53s
187:		0.0727942	total:		remaining:	1m 53s
188:	learn:	0.0724302	total:	1m 8s	remaining:	1m 52s
189:		0.0718929	total:	1m 9s	remaining:	
190:		0.0714591	total:		remaining:	
191: 192:		0.0710411 0.0706976	total:	1m 9s 1m 10s	<pre>remaining: remaining:</pre>	
192. 193:		0.0702707	total:	1m 10s	remaining.	
193. 194:		0.0698835	total:	1m 10s	remaining:	1m 51s 1m 50s
194: 195:		0.0694850	total:	1m 10s	remaining:	1m 50s
196:		0.0690692	total:	1m 11s	remaining:	1m 49s
197:		0.0685948	total:	1m 11s	remaining:	1m 49s
198:		0.0683003	total:	1m 113	remaining:	1m 49s
199:		0.0680033	total:	1m 12s	remaining:	1m 48s
200:		0.0675161	total:	1m 12s	remaining:	
201:	learn:	0.0672149	total:	1m 12s	remaining:	1m 48s
202:		0.0668445	total:	1m 13s	remaining:	1m 47s
203:		0.0665419	total:	1m 14s	remaining:	1m 47s
204:		0.0661181	total:	1m 14s	remaining:	1m 47s
205:		0.0656023	total:	1m 14s	remaining:	1m 46s
206:		0.0652445	total:	1m 15s	remaining:	1m 46s
207:		0.0649236	total:	1m 15s	remaining:	1m 46s
208:		0.0644940	total:	1m 15s	remaining:	1m 45s
209:		0.0643238	total:	1m 16s	remaining:	1m 45s
210:		0.0637946	total:	1m 16s	remaining:	1m 44s
211:		0.0635282	total:	1m 16s	remaining:	1m 44s
212:		0.0631396	total:	1m 17s	remaining:	1m 44s
213:		0.0628048	total:	1m 17s	remaining:	1m 43s
214:		0.0623572	total:	1m 17s	remaining:	1m 43s
215:		0.0619052	total:	1m 18s	remaining:	1m 42s
216:		0.0615737	total:	1m 18s	remaining:	1m 42s
217:	learn:	0.0613212	total:	1m 19s	remaining:	1m 42s
218:		0.0609572	total:	1m 19s	remaining:	1m 41s
219:		0.0605508	total:	1m 19s	remaining:	1m 41s
220:		0.0600478	total:	1m 20s	remaining:	1m 41s
•	•		<u> </u>		U ·	_

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221:
                                  total: 1m 20s
                                                   remaining: 1m 40s
        learn: 0.0597520
222:
        learn: 0.0594934
                                  total: 1m 20s
                                                   remaining: 1m 40s
                                  total: 1m 21s
                                                   remaining: 1m 39s
223:
        learn: 0.0591081
                                  total: 1m 21s
224:
        learn: 0.0588021
                                                   remaining: 1m 39s
225:
        learn: 0.0584258
                                  total: 1m 21s
                                                   remaining: 1m 39s
226:
        learn: 0.0581043
                                  total: 1m 22s
                                                   remaining: 1m 38s
227:
                                  total: 1m 22s
                                                   remaining: 1m 38s
        learn: 0.0577698
                                  total: 1m 22s
228:
        learn: 0.0574981
                                                   remaining: 1m 38s
229:
        learn: 0.0571861
                                  total: 1m 23s
                                                   remaining: 1m 37s
230:
        learn: 0.0569242
                                  total: 1m 23s
                                                   remaining: 1m 37s
231:
        learn: 0.0565661
                                  total: 1m 23s
                                                   remaining: 1m 36s
                                  total: 1m 24s
232:
        learn: 0.0562457
                                                   remaining: 1m 36s
233:
        learn: 0.0560274
                                  total: 1m 24s
                                                   remaining: 1m 36s
                                  total: 1m 24s
234:
        learn: 0.0557000
                                                   remaining: 1m 35s
                                  total: 1m 25s
                                                   remaining: 1m 35s
235:
        learn: 0.0554542
236:
        learn: 0.0552769
                                  total: 1m 25s
                                                   remaining: 1m 35s
                                  total: 1m 26s
237:
        learn: 0.0549135
                                                   remaining: 1m 34s
238:
        learn: 0.0545109
                                  total: 1m 26s
                                                   remaining: 1m 34s
                                  total: 1m 26s
239:
        learn: 0.0543075
                                                   remaining: 1m 33s
240:
        learn: 0.0540682
                                  total: 1m 27s
                                                   remaining: 1m 33s
241:
        learn: 0.0537233
                                  total: 1m 27s
                                                   remaining: 1m 33s
                                  total: 1m 27s
242:
        learn: 0.0533852
                                                   remaining: 1m 32s
243:
        learn: 0.0529809
                                  total: 1m 28s
                                                   remaining: 1m 32s
244:
        learn: 0.0527294
                                  total: 1m 28s
                                                   remaining: 1m 32s
245:
                                  total: 1m 28s
        learn: 0.0524567
                                                   remaining: 1m 31s
                                  total: 1m 29s
246:
        learn: 0.0522198
                                                   remaining: 1m 31s
                                                   remaining: 1m 31s
247:
        learn: 0.0519385
                                  total: 1m 29s
                                  total: 1m 30s
248:
        learn: 0.0517661
                                                   remaining: 1m 30s
249:
        learn: 0.0514712
                                  total: 1m 30s
                                                   remaining: 1m 30s
250:
        learn: 0.0511527
                                  total: 1m 30s
                                                   remaining: 1m 30s
251:
        learn: 0.0508973
                                  total: 1m 31s
                                                   remaining: 1m 29s
252:
        learn: 0.0505961
                                  total: 1m 31s
                                                   remaining: 1m 29s
253:
        learn: 0.0503412
                                  total: 1m 31s
                                                   remaining: 1m 28s
254:
        learn: 0.0500125
                                  total: 1m 32s
                                                   remaining: 1m 28s
255:
        learn: 0.0496644
                                  total: 1m 32s
                                                   remaining: 1m 28s
256:
                                  total: 1m 32s
        learn: 0.0493313
                                                   remaining: 1m 27s
257:
                                  total: 1m 33s
        learn: 0.0491222
                                                   remaining: 1m 27s
258:
                                  total: 1m 33s
        learn: 0.0489104
                                                   remaining: 1m 27s
                                  total: 1m 33s
259:
        learn: 0.0486224
                                                   remaining: 1m 26s
                                                   remaining: 1m 26s
260:
                                  total: 1m 34s
        learn: 0.0483720
                                  total: 1m 34s
                                                   remaining: 1m 25s
261:
        learn: 0.0480448
262:
        learn: 0.0477369
                                  total: 1m 35s
                                                   remaining: 1m 25s
263:
        learn: 0.0473982
                                  total: 1m 35s
                                                   remaining: 1m 25s
264:
        learn: 0.0471894
                                  total: 1m 35s
                                                   remaining: 1m 24s
265:
                                  total: 1m 36s
        learn: 0.0469161
                                                   remaining: 1m 24s
266:
        learn: 0.0466769
                                  total: 1m 36s
                                                   remaining: 1m 24s
267:
        learn: 0.0464651
                                  total: 1m 36s
                                                   remaining: 1m 23s
                                  total: 1m 37s
268:
        learn: 0.0462073
                                                   remaining: 1m 23s
269:
                                  total: 1m 37s
        learn: 0.0459445
                                                   remaining: 1m 23s
270:
                                  total: 1m 37s
        learn: 0.0457124
                                                   remaining: 1m 22s
271:
                                  total: 1m 38s
                                                   remaining: 1m 22s
        learn: 0.0455506
272:
                                  total: 1m 38s
                                                   remaining: 1m 21s
        learn: 0.0453046
273:
        learn: 0.0450809
                                  total: 1m 38s
                                                   remaining: 1m 21s
274:
        learn: 0.0448327
                                  total: 1m 39s
                                                   remaining: 1m 21s
275:
        learn: 0.0446065
                                  total: 1m 39s
                                                   remaining: 1m 20s
276:
        learn: 0.0443503
                                  total: 1m 39s
                                                   remaining: 1m 20s
277:
        learn: 0.0439643
                                  total: 1m 40s
                                                   remaining: 1m 20s
278:
        learn: 0.0438046
                                  total: 1m 40s
                                                   remaining: 1m 19s
279:
        learn: 0.0435419
                                  total: 1m 40s
                                                   remaining: 1m 19s
```

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280:
                                  total: 1m 41s
                                                   remaining: 1m 18s
        learn: 0.0433155
281:
        learn: 0.0430169
                                  total: 1m 41s
                                                   remaining: 1m 18s
                                  total: 1m 42s
                                                   remaining: 1m 18s
282:
        learn: 0.0428009
                                  total: 1m 42s
283:
        learn: 0.0426557
                                                   remaining: 1m 17s
284:
        learn: 0.0423808
                                  total: 1m 42s
                                                   remaining: 1m 17s
285:
        learn: 0.0421486
                                  total: 1m 43s
                                                   remaining: 1m 17s
        learn: 0.0419495
                                  total: 1m 43s
                                                   remaining: 1m 16s
286:
                                  total: 1m 43s
287:
        learn: 0.0417412
                                                   remaining: 1m 16s
288:
        learn: 0.0415626
                                  total: 1m 44s
                                                   remaining: 1m 16s
289:
        learn: 0.0413633
                                  total: 1m 44s
                                                   remaining: 1m 15s
290:
        learn: 0.0411117
                                  total: 1m 44s
                                                   remaining: 1m 15s
291:
                                  total: 1m 45s
        learn: 0.0409010
                                                   remaining: 1m 15s
292:
        learn: 0.0407564
                                  total: 1m 45s
                                                   remaining: 1m 14s
293:
                                  total: 1m 46s
        learn: 0.0404978
                                                   remaining: 1m 14s
294:
                                  total: 1m 46s
                                                   remaining: 1m 13s
        learn: 0.0403410
295:
                                  total: 1m 46s
        learn: 0.0400741
                                                   remaining: 1m 13s
296:
        learn: 0.0398779
                                  total: 1m 47s
                                                   remaining: 1m 13s
297:
        learn: 0.0396779
                                  total: 1m 47s
                                                   remaining: 1m 12s
                                  total: 1m 47s
298:
        learn: 0.0394967
                                                   remaining: 1m 12s
299:
        learn: 0.0392522
                                  total: 1m 48s
                                                   remaining: 1m 12s
300:
        learn: 0.0390190
                                  total: 1m 48s
                                                   remaining: 1m 11s
                                  total: 1m 48s
301:
        learn: 0.0388400
                                                   remaining: 1m 11s
                                  total: 1m 49s
302:
        learn: 0.0386469
                                                   remaining: 1m 11s
303:
        learn: 0.0384840
                                  total: 1m 49s
                                                   remaining: 1m 10s
                                  total: 1m 49s
304:
        learn: 0.0383702
                                                   remaining: 1m 10s
                                  total: 1m 50s
305:
        learn: 0.0381871
                                                   remaining: 1m 9s
                                                   remaining: 1m 9s
306:
        learn: 0.0380730
                                  total: 1m 50s
                                  total: 1m 51s
307:
        learn: 0.0378766
                                                   remaining: 1m 9s
308:
        learn: 0.0376976
                                  total: 1m 51s
                                                   remaining: 1m 8s
309:
        learn: 0.0375277
                                  total: 1m 51s
                                                   remaining: 1m 8s
310:
        learn: 0.0373771
                                  total: 1m 52s
                                                   remaining: 1m 8s
311:
        learn: 0.0371596
                                  total: 1m 52s
                                                   remaining: 1m 7s
312:
        learn: 0.0369572
                                  total: 1m 52s
                                                   remaining: 1m 7s
313:
        learn: 0.0368286
                                  total: 1m 53s
                                                   remaining: 1m 7s
314:
        learn: 0.0366239
                                  total: 1m 53s
                                                   remaining: 1m 6s
315:
                                  total: 1m 53s
        learn: 0.0363925
                                                   remaining: 1m 6s
                                  total: 1m 54s
316:
        learn: 0.0362022
                                                   remaining: 1m 5s
                                  total: 1m 54s
317:
        learn: 0.0360524
                                                   remaining: 1m 5s
                                  total: 1m 54s
318:
        learn: 0.0358486
                                                   remaining: 1m 5s
                                                   remaining: 1m 4s
319:
                                  total: 1m 55s
        learn: 0.0357095
320:
                                  total: 1m 55s
        learn: 0.0355503
                                                   remaining: 1m 4s
321:
        learn: 0.0353047
                                  total: 1m 55s
                                                   remaining: 1m 4s
322:
        learn: 0.0351852
                                  total: 1m 56s
                                                   remaining: 1m 3s
323:
        learn: 0.0350012
                                  total: 1m 56s
                                                   remaining: 1m 3s
324:
                                  total: 1m 56s
        learn: 0.0348182
                                                   remaining: 1m 2s
325:
        learn: 0.0346462
                                  total: 1m 57s
                                                   remaining: 1m 2s
326:
        learn: 0.0344167
                                  total: 1m 57s
                                                   remaining: 1m 2s
                                  total: 1m 58s
327:
        learn: 0.0342029
                                                   remaining: 1m 1s
                                  total: 1m 58s
328:
        learn: 0.0340647
                                                   remaining: 1m 1s
329:
                                  total: 1m 58s
        learn: 0.0338637
                                                   remaining: 1m 1s
                                  total: 1m 59s
330:
        learn: 0.0336891
                                                   remaining: 1m
331:
                                  total: 1m 59s
        learn: 0.0335382
                                                   remaining: 1m
332:
        learn: 0.0332516
                                  total: 1m 59s
                                                   remaining: 1m
333:
        learn: 0.0331367
                                  total: 2m
                                                   remaining: 59.7s
334:
        learn: 0.0330089
                                  total: 2m
                                                   remaining: 59.3s
335:
        learn: 0.0328631
                                  total: 2m
                                                   remaining: 59s
336:
        learn: 0.0326790
                                  total: 2m 1s
                                                   remaining: 58.7s
337:
        learn: 0.0325344
                                  total: 2m 1s
                                                   remaining: 58.3s
                                  total: 2m 2s
338:
        learn: 0.0323941
                                                   remaining: 58s
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339:	learn: 0.0322009	total: 2m 2s	remaining:	57.6s
340:	learn: 0.0320337	total: 2m 2s	remaining:	57.3s
341:	learn: 0.0318311	total: 2m 3s	remaining:	56.9s
342:	learn: 0.0316820	total: 2m 3s	remaining:	
343:	learn: 0.0315520	total: 2m 3s	remaining:	
344:	learn: 0.0314471	total: 2m 4s	remaining:	
345:	learn: 0.0313144	total: 2m 4s	remaining:	
346:	learn: 0.0311943	total: 2m 4s	remaining:	
347:	learn: 0.0310316	total: 2m 5s	remaining:	
348:	learn: 0.0310310	total: 2m 5s	remaining:	
349:	learn: 0.0308030	total: 2m 5s	remaining:	54s
350:	learn: 0.0306106	total: 2m 6s	remaining:	
350. 351:		total: 2m 6s		
	learn: 0.0304733	total: 2m 6s	remaining:	
352:	learn: 0.0303491		remaining:	
353:	learn: 0.0301960	total: 2m 7s	remaining:	
354:	learn: 0.0300121	total: 2m 7s	remaining:	
355:	learn: 0.0298554	total: 2m 8s	remaining:	
356:	learn: 0.0297057	total: 2m 8s	remaining:	
357:	learn: 0.0295254	total: 2m 8s	remaining:	
358:	learn: 0.0294224	total: 2m 9s	remaining:	
359:	learn: 0.0292824	total: 2m 9s	remaining:	50.4s
360:	learn: 0.0291357	total: 2m 9s	remaining:	50s
361:	learn: 0.0289926	total: 2m 10s	remaining:	49.6s
362:	learn: 0.0288551	total: 2m 10s	remaining:	49.3s
363:	learn: 0.0286598	total: 2m 10s	remaining:	48.9s
364:	learn: 0.0285509	total: 2m 11s	remaining:	48.5s
365:	learn: 0.0284223	total: 2m 11s	remaining:	48.2s
366:	learn: 0.0282541	total: 2m 11s	remaining:	47.8s
367:	learn: 0.0280908	total: 2m 12s	remaining:	
368:	learn: 0.0279835	total: 2m 12s	remaining:	
369:	learn: 0.0278881	total: 2m 13s	remaining:	
370:	learn: 0.0277766	total: 2m 13s	remaining:	
371:	learn: 0.0276039	total: 2m 13s	remaining:	
372:	learn: 0.0274697	total: 2m 14s	remaining:	
373:	learn: 0.0273675	total: 2m 14s	remaining:	
374:	learn: 0.0273536	total: 2m 14s	remaining:	
37 5 :	learn: 0.0272350	total: 2m 14s	remaining:	
375: 376:	learn: 0.0271333	total: 2m 15s	remaining:	
370. 377:	learn: 0.0269252	total: 2m 15s	remaining:	
377. 378:			remaining.	
		total: 2m 16s		
379:	learn: 0.0267193	total: 2m 16s	remaining:	
380:	learn: 0.0265989	total: 2m 17s	remaining:	
381:	learn: 0.0264464	total: 2m 17s	remaining:	
382:	learn: 0.0263456	total: 2m 17s	remaining:	
383:	learn: 0.0262234	total: 2m 18s	remaining:	
384:	learn: 0.0261058	total: 2m 18s	remaining:	
385:	learn: 0.0260185	total: 2m 18s	remaining:	
386:	learn: 0.0259152	total: 2m 19s	remaining:	
387:	learn: 0.0257594	total: 2m 19s	remaining:	40.3s
388:	learn: 0.0256579	total: 2m 19s	remaining:	39.9s
389:	learn: 0.0255247	total: 2m 20s	remaining:	39.6s
390:	learn: 0.0254041	total: 2m 20s	remaining:	39.2s
391:	learn: 0.0253105	total: 2m 21s	remaining:	38.9s
392:	learn: 0.0252216	total: 2m 21s	remaining:	
393:	learn: 0.0251037	total: 2m 21s	remaining:	
394:	learn: 0.0250322	total: 2m 22s	remaining:	37.8s
395:	learn: 0.0249468	total: 2m 22s	remaining:	37.4s
396:	learn: 0.0248484	total: 2m 22s	remaining:	37s
397:	learn: 0.0247524	total: 2m 23s	remaining:	
•	· · · · · · · · · · · · · · · · · ·			

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398:
                                 total: 2m 23s
                                                   remaining: 36.3s
        learn: 0.0246374
399:
        learn: 0.0245340
                                 total: 2m 23s
                                                   remaining: 36s
                                 total: 2m 24s
                                                   remaining: 35.6s
400:
        learn: 0.0244353
                                 total: 2m 24s
401:
        learn: 0.0243389
                                                   remaining: 35.2s
402:
        learn: 0.0242383
                                 total: 2m 24s
                                                   remaining: 34.9s
403:
        learn: 0.0241150
                                 total: 2m 25s
                                                   remaining: 34.5s
                                                   remaining: 34.1s
404:
        learn: 0.0240450
                                 total: 2m 25s
405:
                                 total: 2m 25s
        learn: 0.0239270
                                                   remaining: 33.8s
406:
        learn: 0.0238688
                                 total: 2m 26s
                                                   remaining: 33.4s
407:
        learn: 0.0237698
                                 total: 2m 26s
                                                   remaining: 33.1s
408:
        learn: 0.0236577
                                 total: 2m 26s
                                                   remaining: 32.7s
                                 total: 2m 27s
409:
        learn: 0.0235868
                                                   remaining: 32.3s
410:
        learn: 0.0235199
                                 total: 2m 27s
                                                   remaining: 32s
                                 total: 2m 28s
411:
        learn: 0.0233688
                                                   remaining: 31.6s
412:
                                 total: 2m 28s
        learn: 0.0232697
                                                   remaining: 31.3s
                                 total: 2m 28s
413:
        learn: 0.0231798
                                                   remaining: 30.9s
                                 total: 2m 29s
414:
        learn: 0.0230984
                                                   remaining: 30.5s
                                                   remaining: 30.2s
415:
        learn: 0.0229959
                                 total: 2m 29s
                                 total: 2m 29s
416:
        learn: 0.0228823
                                                   remaining: 29.8s
417:
        learn: 0.0228080
                                 total: 2m 30s
                                                   remaining: 29.5s
418:
        learn: 0.0226707
                                 total: 2m 30s
                                                   remaining: 29.1s
                                 total: 2m 30s
                                                   remaining: 28.7s
419:
        learn: 0.0225957
420:
        learn: 0.0225063
                                 total: 2m 31s
                                                   remaining: 28.4s
421:
        learn: 0.0223920
                                 total: 2m 31s
                                                   remaining: 28s
422:
                                 total: 2m 31s
        learn: 0.0223039
                                                   remaining: 27.6s
423:
                                 total: 2m 32s
        learn: 0.0222227
                                                   remaining: 27.3s
424:
        learn: 0.0221226
                                 total: 2m 32s
                                                   remaining: 26.9s
425:
                                 total: 2m 33s
        learn: 0.0220473
                                                   remaining: 26.6s
426:
        learn: 0.0219533
                                 total: 2m 33s
                                                   remaining: 26.2s
427:
        learn: 0.0218556
                                 total: 2m 33s
                                                   remaining: 25.9s
428:
        learn: 0.0217630
                                 total: 2m 34s
                                                   remaining: 25.5s
429:
        learn: 0.0216606
                                 total: 2m 34s
                                                   remaining: 25.2s
                                 total: 2m 34s
430:
        learn: 0.0215959
                                                   remaining: 24.8s
431:
        learn: 0.0215384
                                 total: 2m 35s
                                                   remaining: 24.4s
432:
        learn: 0.0214357
                                 total: 2m 35s
                                                   remaining: 24.1s
433:
                                 total: 2m 36s
        learn: 0.0213556
                                                   remaining: 23.7s
                                 total: 2m 36s
434:
        learn: 0.0212896
                                                   remaining: 23.4s
435:
                                 total: 2m 36s
        learn: 0.0212048
                                                   remaining: 23s
                                 total: 2m 37s
436:
        learn: 0.0211301
                                                   remaining: 22.6s
437:
                                 total: 2m 37s
        learn: 0.0210442
                                                   remaining: 22.3s
438:
                                 total: 2m 37s
        learn: 0.0209425
                                                   remaining: 21.9s
439:
        learn: 0.0208861
                                 total: 2m 38s
                                                   remaining: 21.6s
440:
        learn: 0.0208027
                                 total: 2m 38s
                                                   remaining: 21.2s
                                                   remaining: 20.8s
441:
        learn: 0.0207009
                                 total: 2m 38s
442:
                                 total: 2m 39s
        learn: 0.0206246
                                                   remaining: 20.5s
443:
        learn: 0.0205662
                                 total: 2m 39s
                                                   remaining: 20.1s
444:
        learn: 0.0204971
                                 total: 2m 39s
                                                   remaining: 19.8s
                                 total: 2m 40s
445:
        learn: 0.0204131
                                                   remaining: 19.4s
                                 total: 2m 40s
                                                   remaining: 19s
446:
        learn: 0.0203668
447:
                                 total: 2m 40s
        learn: 0.0202531
                                                   remaining: 18.7s
448:
        learn: 0.0201841
                                 total: 2m 41s
                                                   remaining: 18.3s
449:
                                 total: 2m 41s
        learn: 0.0201337
                                                   remaining: 18s
450:
        learn: 0.0200309
                                 total: 2m 41s
                                                   remaining: 17.6s
451:
        learn: 0.0199735
                                 total: 2m 42s
                                                   remaining: 17.2s
452:
        learn: 0.0199118
                                 total: 2m 42s
                                                   remaining: 16.9s
                                 total: 2m 43s
453:
        learn: 0.0198619
                                                   remaining: 16.5s
454:
        learn: 0.0197560
                                 total: 2m 43s
                                                   remaining: 16.2s
455:
        learn: 0.0196584
                                 total: 2m 43s
                                                   remaining: 15.8s
                                 total: 2m 44s
456:
        learn: 0.0195579
                                                   remaining: 15.4s
```

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457:
        learn: 0.0194891
                                 total: 2m 44s
                                                  remaining: 15.1s
                                 total: 2m 44s
458:
        learn: 0.0194110
                                                  remaining: 14.7s
459:
                                 total: 2m 45s
                                                  remaining: 14.4s
        learn: 0.0193471
                                 total: 2m 45s
460:
        learn: 0.0192928
                                                  remaining: 14s
461:
        learn: 0.0192085
                                 total: 2m 45s
                                                  remaining: 13.6s
462:
        learn: 0.0191549
                                 total: 2m 46s
                                                  remaining: 13.3s
                                                  remaining: 12.9s
463:
        learn: 0.0191035
                                 total: 2m 46s
464:
                                 total: 2m 46s
        learn: 0.0190209
                                                  remaining: 12.6s
465:
        learn: 0.0189501
                                 total: 2m 47s
                                                  remaining: 12.2s
466:
        learn: 0.0188769
                                 total: 2m 47s
                                                  remaining: 11.8s
467:
        learn: 0.0187923
                                 total: 2m 47s
                                                  remaining: 11.5s
                                 total: 2m 48s
468:
        learn: 0.0187123
                                                  remaining: 11.1s
469:
        learn: 0.0186420
                                 total: 2m 48s
                                                  remaining: 10.8s
470:
                                 total: 2m 49s
        learn: 0.0185774
                                                  remaining: 10.4s
                                 total: 2m 49s
471:
        learn: 0.0184808
                                                  remaining: 10.1s
472:
                                 total: 2m 49s
        learn: 0.0184115
                                                  remaining: 9.7s
473:
                                 total: 2m 50s
        learn: 0.0183077
                                                  remaining: 9.34s
                                                  remaining: 8.98s
474:
        learn: 0.0182545
                                 total: 2m 50s
475:
        learn: 0.0182127
                                 total: 2m 50s
                                                  remaining: 8.62s
476:
        learn: 0.0181366
                                 total: 2m 51s
                                                  remaining: 8.26s
477:
        learn: 0.0180647
                                 total: 2m 51s
                                                  remaining: 7.9s
478:
        learn: 0.0179861
                                 total: 2m 52s
                                                  remaining: 7.54s
479:
        learn: 0.0179126
                                 total: 2m 52s
                                                  remaining: 7.18s
480:
        learn: 0.0178556
                                 total: 2m 52s
                                                  remaining: 6.82s
481:
                                 total: 2m 53s
        learn: 0.0177787
                                                  remaining: 6.46s
                                 total: 2m 53s
                                                  remaining: 6.11s
482:
        learn: 0.0177236
483:
        learn: 0.0176515
                                 total: 2m 53s
                                                  remaining: 5.75s
484:
                                 total: 2m 54s
        learn: 0.0175841
                                                  remaining: 5.39s
485:
        learn: 0.0175107
                                 total: 2m 54s
                                                  remaining: 5.03s
486:
        learn: 0.0174491
                                 total: 2m 54s
                                                  remaining: 4.67s
487:
        learn: 0.0173947
                                 total: 2m 55s
                                                  remaining: 4.31s
488:
        learn: 0.0173150
                                 total: 2m 55s
                                                  remaining: 3.95s
                                 total: 2m 55s
489:
        learn: 0.0172514
                                                  remaining: 3.59s
490:
        learn: 0.0171897
                                 total: 2m 56s
                                                  remaining: 3.23s
491:
        learn: 0.0171262
                                 total: 2m 56s
                                                  remaining: 2.87s
492:
                                 total: 2m 56s
                                                  remaining: 2.51s
        learn: 0.0170811
                                 total: 2m 57s
493:
        learn: 0.0170174
                                                  remaining: 2.15s
494:
                                 total: 2m 57s
        learn: 0.0169388
                                                  remaining: 1.79s
                                 total: 2m 58s
                                                  remaining: 1.44s
495:
        learn: 0.0168726
496:
                                 total: 2m 58s
        learn: 0.0168178
                                                  remaining: 1.08s
497:
                                 total: 2m 58s
        learn: 0.0167562
                                                  remaining: 718ms
498:
        learn: 0.0166882
                                 total: 2m 59s
                                                  remaining: 359ms
499:
        learn: 0.0166148
                                 total: 2m 59s
                                                  remaining: Ous
      learning_rate=0.3, 12_leaf_reg=10, iterations=500, depth=10, ctr_b
[CV]
order_count=50, border_count=10, score=0.8398192629140976, total= 3.1min
[CV] learning_rate=0.3, l2_leaf_reg=10, iterations=500, depth=10, ctr_bo
rder count=50, border count=10
0:
        learn: 0.4798716
                                 total: 367ms
                                                  remaining: 3m 3s
1:
        learn: 0.3813296
                                 total: 747ms
                                                  remaining: 3m 6s
2:
                                                  remaining: 3m 2s
        learn: 0.3363014
                                 total: 1.1s
3:
        learn: 0.3138619
                                                  remaining: 3m 2s
                                 total: 1.47s
4:
        learn: 0.3016730
                                 total: 1.84s
                                                  remaining: 3m 2s
5:
        learn: 0.2923560
                                 total: 2.19s
                                                  remaining: 3m
6:
        learn: 0.2854479
                                 total: 2.54s
                                                  remaining: 2m 59s
7:
        learn: 0.2802105
                                 total: 2.89s
                                                  remaining: 2m 57s
8:
        learn: 0.2750427
                                 total: 3.25s
                                                  remaining: 2m 57s
9:
        learn: 0.2710059
                                 total: 3.6s
                                                  remaining: 2m 56s
10:
        learn: 0.2670228
                                 total: 3.96s
                                                  remaining: 2m 56s
```

total: 4.31s

remaining: 2m 55s

11:

learn: 0.2630953

12: learn: 0.2596630 total: 4.67s remaining: 2m 54s 14: learn: 0.2560156 total: 5.01s remaining: 2m 54s 14: learn: 0.2540721 total: 5.36s remaining: 2m 53s 15: learn: 0.2510177 total: 5.36s remaining: 2m 52s 17: learn: 0.2481901 total: 6.06s remaining: 2m 52s 17: learn: 0.2481903 total: 6.04s remaining: 2m 52s 18: learn: 0.248193 total: 6.07s remaining: 2m 51s 19: learn: 0.2480982 total: 7.14s remaining: 2m 51s 19: learn: 0.2379669 total: 7.14s remaining: 2m 51s 10: learn: 0.239566 total: 7.49s remaining: 2m 59s 11: learn: 0.2389566 total: 8.21s remaining: 2m 59s 12: learn: 0.2389566 total: 8.21s remaining: 2m 59s 12: learn: 0.2289566 total: 8.21s remaining: 2m 49s 12: learn: 0.2289360 total: 8.91s remaining: 2m 49s 12: learn: 0.2289360 total: 8.91s remaining: 2m 48s 12: learn: 0.2289566 total: 9.97s remaining: 2m 48s 12: learn: 0.2220576 total: 9.97s remaining: 2m 48s 12: learn: 0.2175546 total: 10.4s remaining: 2m 48s 12: learn: 0.2175546 total: 10.4s remaining: 2m 48s 12: learn: 0.2175546 total: 10.4s remaining: 2m 48s 13: learn: 0.2175546 total: 10.4s remaining: 2m 49s 13: learn: 0.2175546 total: 11.3s remaining: 2m 49s 13: learn: 0.2078572 total: 12.4s remaining: 2m 49s 13: learn: 0.2078572 total: 12.4s remaining: 2m 49s 13: learn: 0.2078572 total: 12.4s remaining: 2m 49s 14: learn: 0.2060429 total: 33.1s remaining: 2m 48s 16: learn: 0.2064547 total: 13.9s remaining: 2m 48s 16: learn: 0.1946011 total: 15.7s remaining: 2m 48s 16: learn: 0.1946011 total: 15.7s remaining: 2m 48s 16: learn: 0.1946011 total: 15.7s remaining: 2m 47s 18: learn: 0.1946011 total: 15.7s remaining: 2m 47s 18: learn: 0.1946011 total: 15.7s remaining: 2m 47s 19: learn: 0.1946011 total: 15.7s remaining: 2m 45s 10: learn: 0.1946011 total: 25.7s remaining: 2m 45s 10: learn: 0.1946011 total: 25.7s remaining: 2m 45s 10: learn: 0.1868045 total: 19.4s remaining: 2m 45s 10: learn: 0.1868045	12.	looms 0 2506620	+0+0]. 4 (7	2m F4c
14: learn: 0.2540721 total: 5.36s remaining: 2m 52s 15: learn: 0.2481991 total: 6.06s remaining: 2m 52s 17: learn: 0.2481993 total: 6.41s remaining: 2m 52s 17: learn: 0.2434193 total: 6.49s remaining: 2m 52s 18: learn: 0.2420791 total: 6.79s remaining: 2m 51s 19: learn: 0.2400982 total: 7.14s remaining: 2m 51s 19: learn: 0.2379669 total: 7.49s remaining: 2m 51s 20: learn: 0.23255617 total: 7.85s remaining: 2m 50s 21: learn: 0.2325566 total: 8.21s remaining: 2m 50s 22: learn: 0.2329566 total: 8.21s remaining: 2m 50s 23: learn: 0.2283960 total: 8.91s remaining: 2m 49s 24: learn: 0.2283960 total: 8.91s remaining: 2m 49s 25: learn: 0.2239160 total: 9.27s remaining: 2m 49s 26: learn: 0.2239160 total: 9.62s remaining: 2m 48s 27: learn: 0.2220576 total: 9.97s remaining: 2m 48s 28: learn: 0.2196169 total: 10.4s remaining: 2m 48s 29: learn: 0.2156845 total: 10.8s remaining: 2m 49s 30: learn: 0.2156845 total: 11.3s remaining: 2m 49s 31: learn: 0.2137811 total: 11.6s remaining: 2m 49s 33: learn: 0.2099597 total: 12.4s remaining: 2m 49s 33: learn: 0.2060429 total: 12.8s remaining: 2m 49s 34: learn: 0.2060429 total: 13.1s remaining: 2m 49s 36: learn: 0.2060429 total: 13.1s remaining: 2m 49s 37: learn: 0.2060429 total: 13.1s remaining: 2m 49s 38: learn: 0.2060429 total: 13.1s remaining: 2m 49s 38: learn: 0.201375 total: 12.8s remaining: 2m 49s 38: learn: 0.1995517 total: 12.8s remaining: 2m 49s 38: learn: 0.199554 total: 13.5s remaining: 2m 49s 39: learn: 0.1997517 total: 14.2s remaining: 2m 49s 36: learn: 0.1981116 total: 15.s remaining: 2m 47s 40: learn: 0.198368 total: 13.9s remaining: 2m 47s 41: learn: 0.1963617 total: 15.3s remaining: 2m 47s 42: learn: 0.198368 total: 15.7s remaining: 2m 47s 48: learn: 0.198368 total: 15.7s remaining: 2m 46s 44: learn: 0.198368 total: 15.7s remaining: 2m 46s 45: learn: 0.198368 total: 15.7s remaining: 2m 46s 46: learn: 0.1687044 total: 20.4s remaining: 2m 45s 46: learn: 0.1688027 total: 18.8s remaining: 2m 45s 4	12:	learn: 0.2596630			
15: learn: 0.2510177				U	
16: learn: 0.2481901					
17: learn: 0.2454193					
18:					
19:				9	
28: learn: 0.2379669 total: 7.49s remaining: 2m 50s 21: learn: 0.2355117 total: 8.21s remaining: 2m 50s 22: learn: 0.2383713 total: 8.21s remaining: 2m 50s 23: learn: 0.2283960 total: 8.91s remaining: 2m 49s 24: learn: 0.2261404 total: 9.27s remaining: 2m 48s 26: learn: 0.2239160 total: 9.62s remaining: 2m 48s 27: learn: 0.2196169 total: 10.4s remaining: 2m 48s 28: learn: 0.215646 total: 10.4s remaining: 2m 49s 29: learn: 0.217546 total: 11.6s remaining: 2m 49s 30: learn: 0.2137811 total: 11.6s remaining: 2m 49s 31: learn: 0.2137811 total: 12.4s remaining: 2m 49s 32: learn: 0.217846 total: 12.4s remaining: 2m 49s 33: learn: 0.2137811 total: 11.6s remaining: 2m 49s 34: learn: 0.2137817 total: 12.4s remaining: 2m 49s 35: learn: 0.2068429 total: 13.1s					
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22: learn: 0.2329566 total: 8.21s remaining: 2m 49s 23: learn: 0.2303713 total: 8.91s remaining: 2m 49s 24: learn: 0.2283960 total: 8.91s remaining: 2m 48s 26: learn: 0.2239160 total: 9.62s remaining: 2m 48s 27: learn: 0.2196169 total: 9.97s remaining: 2m 48s 28: learn: 0.2175546 total: 10.4s remaining: 2m 48s 29: learn: 0.2175546 total: 10.8s remaining: 2m 49s 30: learn: 0.2137811 total: 11.6s remaining: 2m 49s 31: learn: 0.2119018 total: 12.s remaining: 2m 49s 32: learn: 0.2078572 total: 12.4s remaining: 2m 49s 33: learn: 0.2078572 total: 13.1s remaining: 2m 49s 34: learn: 0.2045457 total: 13.1s remaining: 2m 49s 35: learn: 0.2045457 total: 13.9s remaining: 2m 49s 36: learn: 0.2045650 total: 13.9s remaining: 2m 48s 37: learn: 0.1981116 total: 15.5s	20:	learn: 0.2379669	total: 7.4	9s remaining:	2m 50s
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56: learn: 0.1735986 total: 20.8s remaining: 2m 41s 57: learn: 0.1722772 total: 21.1s remaining: 2m 41s 58: learn: 0.1712149 total: 21.5s remaining: 2m 40s 59: learn: 0.1698883 total: 21.8s remaining: 2m 40s 60: learn: 0.1688027 total: 22.2s remaining: 2m 39s 61: learn: 0.1674524 total: 22.6s remaining: 2m 39s 62: learn: 0.1661302 total: 22.9s remaining: 2m 38s 63: learn: 0.1647804 total: 23.3s remaining: 2m 38s 64: learn: 0.1636889 total: 23.6s remaining: 2m 38s 65: learn: 0.1627160 total: 24s remaining: 2m 37s 66: learn: 0.1613169 total: 24.3s remaining: 2m 36s 67: learn: 0.1602106 total: 24.7s remaining: 2m 36s 68: learn: 0.1588994 total: 25s remaining: 2m 36s 69: learn: 0.1578465 total: 25.4s remaining: 2m 35s					
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61: learn: 0.1674524 total: 22.6s remaining: 2m 39s 62: learn: 0.1661302 total: 22.9s remaining: 2m 38s 63: learn: 0.1647804 total: 23.3s remaining: 2m 38s 64: learn: 0.1636889 total: 23.6s remaining: 2m 38s 65: learn: 0.1627160 total: 24s remaining: 2m 37s 66: learn: 0.1613169 total: 24.3s remaining: 2m 37s 67: learn: 0.1602106 total: 24.7s remaining: 2m 36s 68: learn: 0.1588994 total: 25s remaining: 2m 36s 69: learn: 0.1578465 total: 25.4s remaining: 2m 35s					
62: learn: 0.1661302 total: 22.9s remaining: 2m 38s 63: learn: 0.1647804 total: 23.3s remaining: 2m 38s 64: learn: 0.1636889 total: 23.6s remaining: 2m 38s 65: learn: 0.1627160 total: 24s remaining: 2m 37s 66: learn: 0.1613169 total: 24.3s remaining: 2m 37s 67: learn: 0.1602106 total: 24.7s remaining: 2m 36s 68: learn: 0.1588994 total: 25s remaining: 2m 36s 69: learn: 0.1578465 total: 25.4s remaining: 2m 35s				0	
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68: learn: 0.1588994 total: 25s remaining: 2m 36s 69: learn: 0.1578465 total: 25.4s remaining: 2m 35s			total: 24.	_	
69: learn: 0.1578465 total: 25.4s remaining: 2m 35s		learn: 0.1602106	total: 24.	7s remaining:	2m 36s
=	68:	learn: 0.1588994	total: 25s	remaining:	2m 36s
-	69:	learn: 0.1578465	total: 25.	4s remaining:	2m 35s
	70:	learn: 0.1567464	total: 25.	_	

71:	learn	0.1556804	total:	26 1s	remaining:	2m	35c
72:		0.1547067	total:		remaining:		
73:		0.1533952	total:		remaining:		
74:		0.1524386	total:		remaining:		
75:	learn:	0.1513727	total:		remaining:		
76:	learn:	0.1503327	total:	28.1s	remaining:		34s
77:	learn:	0.1494175	total:	28.5s	remaining:	2m	34s
78:	learn:	0.1486576	total:	28.8s	remaining:	2m	33s
79:	learn:	0.1475608	total:	29.2s	remaining:	2m	33s
80:	learn:	0.1465432	total:	29.5s	remaining:	2m	32s
81:	learn:	0.1456750	total:	29.9s	remaining:	2m	32s
82:	learn:	0.1447150	total:	30.2s	remaining:		
83:		0.1436944	total:		remaining:		
84:		0.1427624	total:		remaining:		
85:		0.1416033	total:		remaining:		
86:		0.1404538	total:		remaining:		
87:		0.1395075		32s	remaining:		29s
88:		0.1387198	total:		remaining:		
89:		0.1375736	total:		remaining:		
90:		0.1367017	total:		remaining:		
91:		0.1358201	total:		remaining:		
92:		0.1347390	total:		remaining:		27s
93:		0.1337313	total:		remaining:		
94:		0.1331293	total:		remaining:		27s
95:		0.1322939	total:		remaining:		
96:		0.1311677	total:		remaining:		
97:	learn:		total:		remaining:		25s
98:		0.1298120	total:		remaining:		
99: 100:		0.1287927 0.1278015	<pre>total: total:</pre>		<pre>remaining: remaining:</pre>		
100.		0.1270397	total:		remaining.		
101:		0.1262276	total:		remaining:		
102:		0.1253937	total:		remaining:		
104:		0.1244262	total:		remaining:		
105:		0.1235872	total:		remaining:		
106:		0.1227002	total:		remaining:		
107:		0.1219523	total:		remaining:		
108:		0.1215092	total:		remaining:		
109:		0.1207533	total:		remaining:		
110:		0.1198109	total:		remaining:		
111:		0.1190914	total:		remaining:		
112:	learn:	0.1182736	total:	40.9s	remaining:		
113:	learn:	0.1175392	total:	41. 3s	remaining:		
114:	learn:	0.1167657	total:	41. 6s	remaining:	2m	19s
115:	learn:	0.1158961	total:	42s	remaining:	2m	18s
116:	learn:	0.1153249	total:	42.4s	remaining:	2m	18s
117:	learn:	0.1145248	total:	42.8s	remaining:	2m	18s
118:	learn:	0.1138015	total:	43.2s	remaining:	2m	18s
119:	learn:	0.1131083	total:	43.7s	remaining:	2m	18s
120:		0.1124746	total:		remaining:		
121:		0.1117310	total:		remaining:		
122:		0.1108595	total:		remaining:		
123:		0.1099236	total:		remaining:		
124:		0.1092530	total:		remaining:		
125:		0.1083674	total:		remaining:		
126:		0.1075264	total:		remaining:		
127:		0.1067178	total:		remaining:		
128:		0.1059006	total:		remaining:		
129:	learn:	0.1050891	total:	47.2s	remaining:	2m	14s

130:	learn: 0.1043463	total: 47.6s	remaining:	2m 14s
131:	learn: 0.1034249	total: 47.9s	remaining:	2m 13s
132:	learn: 0.1027814	total: 48.3s	remaining:	2m 13s
133:	learn: 0.1023200	total: 48.7s	remaining:	2m 12s
134:	learn: 0.1015877	total: 49s	remaining:	2m 12s
135:	learn: 0.1008822	total: 49.4s	remaining:	
136:	learn: 0.1002986	total: 49.8s	remaining:	
137:	learn: 0.0995593	total: 50.1s	remaining:	
138:	learn: 0.0985887	total: 50.5s	remaining:	
139:	learn: 0.0979926	total: 50.8s	remaining:	
140:	learn: 0.0974348	total: 51.2s	remaining:	
141:	learn: 0.0970224	total: 51.23	remaining:	
142:	learn: 0.0970224	total: 51.9s	remaining:	
143:	learn: 0.0956703	total: 51.33	remaining:	
143. 144:	learn: 0.0949460	total: 52.2s	remaining:	
			•	
145:	learn: 0.0943493 learn: 0.0936569	total: 53s	remaining:	
146:		total: 53.3s	remaining:	
147:	learn: 0.0931443	total: 53.7s	remaining:	
148:	learn: 0.0925285	total: 54.1s	remaining:	
149:	learn: 0.0920124	total: 54.4s	remaining:	
150:	learn: 0.0913326	total: 54.8s	remaining:	
151:	learn: 0.0907406	total: 55.2s	remaining:	
152:	learn: 0.0901804	total: 55.5s	remaining:	
153:	learn: 0.0896613	total: 55.9s	remaining:	
154:	learn: 0.0892310	total: 56.2s	remaining:	
155:	learn: 0.0887867	total: 56.6s	remaining:	
156:	learn: 0.0882862	total: 56.9s	remaining:	2m 4s
157:	learn: 0.0877356	total: 57.3s	remaining:	2m 3s
158:	learn: 0.0870321	total: 57.6s	remaining:	2m 3s
159:	learn: 0.0865500	total: 58s	remaining:	2m 3s
160:	learn: 0.0860189	total: 58.4s	remaining:	2m 2s
161:	learn: 0.0855214	total: 58.8s	remaining:	2m 2s
162:	learn: 0.0849771	total: 59.3s	remaining:	2m 2s
163:	learn: 0.0843934	total: 59.6s	remaining:	2m 2s
164:	learn: 0.0838919	total: 60s	remaining:	
165:	learn: 0.0833485	total: 1m	remaining:	
166:	learn: 0.0827850	total: 1m	remaining:	
167:	learn: 0.0822756	total: 1m 1s	remaining:	
168:	learn: 0.0817850	total: 1m 1s	remaining:	
169:	learn: 0.0813674	total: 1m 1s	remaining:	
170:	learn: 0.0809109	total: 1m 2s	remaining:	
171:	learn: 0.0803931	total: 1m 2s	remaining:	
172:	learn: 0.0800102	total: 1m 2s	remaining:	
173:	learn: 0.0794368	total: 1m 3s	remaining:	
173: 174:	learn: 0.0789585	total: 1m 3s	remaining:	
174: 175:	learn: 0.0784161	total: 1m 3s	remaining:	
175. 176:	learn: 0.0779568	total: 1m 4s	remaining:	
170. 177:	learn: 0.0775227	total: 1m 4s	remaining:	
			_	
178:	learn: 0.0771958	total: 1m 4s	remaining:	
179:	learn: 0.0766537	total: 1m 5s	remaining:	
180:	learn: 0.0760936	total: 1m 5s	remaining:	
181:	learn: 0.0756417	total: 1m 6s	remaining:	
182:	learn: 0.0751364	total: 1m 6s	remaining:	
183:	learn: 0.0746251	total: 1m 6s	remaining:	
184:	learn: 0.0740113	total: 1m 7s	remaining:	
185:	learn: 0.0735148	total: 1m 7s	remaining:	
186:	learn: 0.0731825	total: 1m 7s	remaining:	
187:	learn: 0.0728510	total: 1m 8s	remaining:	
188:	learn: 0.0722396	total: 1m 8s	remaining:	1m 52s

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189:
                                  total: 1m 8s
                                                   remaining: 1m 52s
        learn: 0.0719497
190:
        learn: 0.0715645
                                  total: 1m 9s
                                                   remaining: 1m 52s
                                                   remaining: 1m 51s
191:
        learn: 0.0711641
                                  total: 1m 9s
192:
        learn: 0.0708518
                                  total: 1m 10s
                                                   remaining: 1m 51s
193:
        learn: 0.0704043
                                  total: 1m 10s
                                                   remaining: 1m 51s
194:
        learn: 0.0699948
                                  total: 1m 10s
                                                   remaining: 1m 50s
195:
                                  total: 1m 11s
                                                   remaining: 1m 50s
        learn: 0.0696701
196:
                                  total: 1m 11s
        learn: 0.0692543
                                                   remaining: 1m 49s
197:
        learn: 0.0689867
                                  total: 1m 11s
                                                   remaining: 1m 49s
198:
        learn: 0.0686894
                                  total: 1m 12s
                                                   remaining: 1m 49s
199:
        learn: 0.0681744
                                  total: 1m 12s
                                                   remaining: 1m 48s
200:
        learn: 0.0677376
                                  total: 1m 12s
                                                   remaining: 1m 48s
201:
        learn: 0.0673605
                                  total: 1m 13s
                                                   remaining: 1m 48s
202:
        learn: 0.0668505
                                  total: 1m 13s
                                                   remaining: 1m 47s
                                  total: 1m 13s
                                                   remaining: 1m 47s
203:
        learn: 0.0664660
204:
        learn: 0.0658169
                                  total: 1m 14s
                                                   remaining: 1m 46s
205:
        learn: 0.0653927
                                  total: 1m 14s
                                                   remaining: 1m 46s
206:
        learn: 0.0649923
                                  total: 1m 15s
                                                   remaining: 1m 46s
                                  total: 1m 15s
207:
        learn: 0.0644566
                                                   remaining: 1m 46s
208:
        learn: 0.0641725
                                  total: 1m 15s
                                                   remaining: 1m 45s
209:
        learn: 0.0638504
                                  total: 1m 16s
                                                   remaining: 1m 45s
210:
        learn: 0.0635024
                                  total: 1m 16s
                                                   remaining: 1m 45s
211:
        learn: 0.0630950
                                  total: 1m 17s
                                                   remaining: 1m 44s
212:
        learn: 0.0628003
                                  total: 1m 17s
                                                   remaining: 1m 44s
213:
        learn: 0.0624265
                                  total: 1m 17s
                                                   remaining: 1m 43s
                                  total: 1m 18s
214:
        learn: 0.0621076
                                                   remaining: 1m 43s
                                                   remaining: 1m 43s
215:
        learn: 0.0617151
                                  total: 1m 18s
                                  total: 1m 18s
216:
        learn: 0.0612399
                                                   remaining: 1m 42s
217:
        learn: 0.0607399
                                  total: 1m 19s
                                                   remaining: 1m 42s
218:
        learn: 0.0604287
                                  total: 1m 19s
                                                   remaining: 1m 42s
219:
        learn: 0.0601423
                                  total: 1m 19s
                                                   remaining: 1m 41s
220:
        learn: 0.0597414
                                  total: 1m 20s
                                                   remaining: 1m 41s
221:
        learn: 0.0593743
                                  total: 1m 20s
                                                   remaining: 1m 40s
222:
        learn: 0.0591120
                                  total: 1m 20s
                                                   remaining: 1m 40s
223:
                                  total: 1m 21s
        learn: 0.0587876
                                                   remaining: 1m 40s
224:
                                  total: 1m 21s
        learn: 0.0585120
                                                   remaining: 1m 39s
225:
                                  total: 1m 22s
        learn: 0.0582543
                                                   remaining: 1m 39s
226:
                                  total: 1m 22s
        learn: 0.0579813
                                                   remaining: 1m 39s
                                  total: 1m 22s
227:
        learn: 0.0576053
                                                   remaining: 1m 38s
                                  total: 1m 23s
                                                   remaining: 1m 38s
228:
        learn: 0.0573663
229:
                                  total: 1m 23s
        learn: 0.0570121
                                                   remaining: 1m 37s
230:
        learn: 0.0565332
                                  total: 1m 23s
                                                   remaining: 1m 37s
231:
        learn: 0.0562951
                                  total: 1m 24s
                                                   remaining: 1m 37s
232:
        learn: 0.0560549
                                  total: 1m 24s
                                                   remaining: 1m 36s
                                  total: 1m 24s
233:
        learn: 0.0557298
                                                   remaining: 1m 36s
234:
        learn: 0.0554729
                                  total: 1m 25s
                                                   remaining: 1m 36s
235:
        learn: 0.0551640
                                  total: 1m 25s
                                                   remaining: 1m 35s
        learn: 0.0548879
                                  total: 1m 25s
236:
                                                   remaining: 1m 35s
237:
                                  total: 1m 26s
        learn: 0.0547174
                                                   remaining: 1m 34s
238:
                                  total: 1m 26s
        learn: 0.0544342
                                                   remaining: 1m 34s
239:
                                  total: 1m 26s
                                                   remaining: 1m 34s
        learn: 0.0541360
                                  total: 1m 27s
                                                   remaining: 1m 33s
240:
        learn: 0.0539452
241:
        learn: 0.0536171
                                  total: 1m 27s
                                                   remaining: 1m 33s
242:
        learn: 0.0533259
                                  total: 1m 28s
                                                   remaining: 1m 33s
243:
        learn: 0.0529115
                                  total: 1m 28s
                                                   remaining: 1m 32s
                                  total: 1m 28s
244:
        learn: 0.0527365
                                                   remaining: 1m 32s
245:
        learn: 0.0523930
                                  total: 1m 29s
                                                   remaining: 1m 31s
246:
        learn: 0.0520143
                                  total: 1m 29s
                                                   remaining: 1m 31s
247:
        learn: 0.0517260
                                  total: 1m 29s
                                                   remaining: 1m 31s
```

```
248:
                                  total: 1m 30s
                                                   remaining: 1m 30s
        learn: 0.0514251
249:
        learn: 0.0511521
                                  total: 1m 30s
                                                   remaining: 1m 30s
250:
                                  total: 1m 31s
                                                   remaining: 1m 30s
        learn: 0.0508521
                                  total: 1m 31s
251:
        learn: 0.0505111
                                                   remaining: 1m 29s
252:
        learn: 0.0503071
                                  total: 1m 31s
                                                   remaining: 1m 29s
253:
        learn: 0.0500496
                                  total: 1m 32s
                                                   remaining: 1m 29s
254:
        learn: 0.0497465
                                  total: 1m 32s
                                                   remaining: 1m 28s
255:
                                  total: 1m 32s
        learn: 0.0495020
                                                   remaining: 1m 28s
256:
        learn: 0.0492040
                                  total: 1m 33s
                                                   remaining: 1m 28s
257:
        learn: 0.0488788
                                  total: 1m 33s
                                                   remaining: 1m 27s
258:
        learn: 0.0486819
                                  total: 1m 33s
                                                   remaining: 1m 27s
259:
                                  total: 1m 34s
        learn: 0.0484016
                                                   remaining: 1m 27s
260:
        learn: 0.0481527
                                  total: 1m 34s
                                                   remaining: 1m 26s
                                  total: 1m 34s
261:
        learn: 0.0479255
                                                   remaining: 1m 26s
                                  total: 1m 35s
                                                   remaining: 1m 25s
262:
        learn: 0.0477062
                                  total: 1m 35s
263:
        learn: 0.0475282
                                                   remaining: 1m 25s
                                  total: 1m 36s
264:
        learn: 0.0472324
                                                   remaining: 1m 25s
265:
        learn: 0.0469943
                                  total: 1m 36s
                                                   remaining: 1m 24s
                                  total: 1m 36s
266:
        learn: 0.0467114
                                                   remaining: 1m 24s
267:
        learn: 0.0464429
                                  total: 1m 37s
                                                   remaining: 1m 24s
268:
        learn: 0.0462719
                                  total: 1m 37s
                                                   remaining: 1m 23s
                                  total: 1m 37s
269:
        learn: 0.0460624
                                                   remaining: 1m 23s
270:
        learn: 0.0457951
                                  total: 1m 38s
                                                   remaining: 1m 22s
                                                   remaining: 1m 22s
271:
        learn: 0.0455820
                                  total: 1m 38s
272:
                                  total: 1m 38s
        learn: 0.0452051
                                                   remaining: 1m 22s
273:
                                  total: 1m 39s
                                                   remaining: 1m 21s
        learn: 0.0450184
                                                   remaining: 1m 21s
274:
        learn: 0.0447986
                                  total: 1m 39s
275:
                                  total: 1m 39s
        learn: 0.0446066
                                                   remaining: 1m 21s
276:
        learn: 0.0444366
                                  total: 1m 40s
                                                   remaining: 1m 20s
277:
        learn: 0.0442634
                                  total: 1m 40s
                                                   remaining: 1m 20s
278:
        learn: 0.0440518
                                  total: 1m 40s
                                                   remaining: 1m 19s
279:
        learn: 0.0438737
                                  total: 1m 41s
                                                   remaining: 1m 19s
280:
        learn: 0.0437339
                                  total: 1m 41s
                                                   remaining: 1m 19s
281:
        learn: 0.0434560
                                  total: 1m 41s
                                                   remaining: 1m 18s
                                  total: 1m 42s
282:
        learn: 0.0433008
                                                   remaining: 1m 18s
283:
                                  total: 1m 42s
        learn: 0.0431143
                                                   remaining: 1m 18s
                                  total: 1m 43s
284:
        learn: 0.0429580
                                                   remaining: 1m 17s
285:
                                  total: 1m 43s
        learn: 0.0426410
                                                   remaining: 1m 17s
                                  total: 1m 43s
286:
        learn: 0.0424338
                                                   remaining: 1m 17s
                                  total: 1m 44s
                                                   remaining: 1m 16s
287:
        learn: 0.0422309
288:
                                  total: 1m 44s
        learn: 0.0420243
                                                   remaining: 1m 16s
289:
        learn: 0.0417718
                                  total: 1m 44s
                                                   remaining: 1m 15s
290:
        learn: 0.0415618
                                  total: 1m 45s
                                                   remaining: 1m 15s
291:
        learn: 0.0413113
                                  total: 1m 45s
                                                   remaining: 1m 15s
292:
                                  total: 1m 45s
        learn: 0.0410851
                                                   remaining: 1m 14s
293:
        learn: 0.0408912
                                  total: 1m 46s
                                                   remaining: 1m 14s
294:
        learn: 0.0407047
                                  total: 1m 46s
                                                   remaining: 1m 14s
                                  total: 1m 47s
295:
        learn: 0.0405110
                                                   remaining: 1m 13s
                                  total: 1m 47s
296:
        learn: 0.0402758
                                                   remaining: 1m 13s
297:
                                  total: 1m 47s
        learn: 0.0401120
                                                   remaining: 1m 13s
298:
        learn: 0.0399106
                                  total: 1m 48s
                                                   remaining: 1m 12s
299:
        learn: 0.0397913
                                  total: 1m 48s
                                                   remaining: 1m 12s
300:
        learn: 0.0395684
                                  total: 1m 48s
                                                   remaining: 1m 12s
301:
        learn: 0.0393940
                                  total: 1m 49s
                                                   remaining: 1m 11s
302:
        learn: 0.0391801
                                  total: 1m 49s
                                                   remaining: 1m 11s
303:
        learn: 0.0389963
                                  total: 1m 50s
                                                   remaining: 1m 10s
304:
        learn: 0.0387624
                                  total: 1m 50s
                                                   remaining: 1m 10s
305:
        learn: 0.0386581
                                  total: 1m 50s
                                                   remaining: 1m 10s
306:
        learn: 0.0384564
                                  total: 1m 51s
                                                   remaining: 1m 9s
```

```
307:
                                  total: 1m 51s
                                                   remaining: 1m 9s
        learn: 0.0382889
308:
        learn: 0.0381358
                                  total: 1m 51s
                                                   remaining: 1m 9s
                                  total: 1m 52s
                                                   remaining: 1m 8s
309:
        learn: 0.0379793
                                  total: 1m 52s
                                                   remaining: 1m 8s
310:
        learn: 0.0378051
311:
        learn: 0.0375893
                                  total: 1m 52s
                                                   remaining: 1m 8s
312:
        learn: 0.0374968
                                  total: 1m 53s
                                                   remaining: 1m 7s
        learn: 0.0373271
                                  total: 1m 53s
                                                   remaining: 1m 7s
313:
                                                   remaining: 1m 7s
                                  total: 1m 54s
314:
        learn: 0.0371825
315:
        learn: 0.0369945
                                  total: 1m 54s
                                                   remaining: 1m 6s
316:
        learn: 0.0368010
                                  total: 1m 54s
                                                   remaining: 1m 6s
317:
        learn: 0.0366557
                                  total: 1m 55s
                                                   remaining: 1m 5s
                                  total: 1m 55s
318:
        learn: 0.0364602
                                                   remaining: 1m 5s
319:
        learn: 0.0362488
                                  total: 1m 55s
                                                   remaining: 1m 5s
320:
                                  total: 1m 56s
        learn: 0.0360589
                                                   remaining: 1m 4s
321:
                                  total: 1m 56s
                                                   remaining: 1m 4s
        learn: 0.0358642
                                  total: 1m 56s
322:
        learn: 0.0357100
                                                   remaining: 1m 4s
323:
                                  total: 1m 57s
        learn: 0.0355666
                                                   remaining: 1m 3s
324:
        learn: 0.0354519
                                  total: 1m 57s
                                                   remaining: 1m 3s
                                  total: 1m 58s
325:
        learn: 0.0352958
                                                   remaining: 1m 3s
326:
        learn: 0.0351437
                                  total: 1m 58s
                                                   remaining: 1m 2s
327:
        learn: 0.0350194
                                  total: 1m 58s
                                                   remaining: 1m 2s
328:
        learn: 0.0348425
                                  total: 1m 59s
                                                   remaining: 1m 1s
                                                   remaining: 1m 1s
329:
        learn: 0.0346444
                                  total: 1m 59s
330:
        learn: 0.0344726
                                  total: 1m 59s
                                                   remaining: 1m 1s
331:
        learn: 0.0342996
                                  total: 2m
                                                   remaining: 1m
332:
        learn: 0.0340626
                                  total: 2m
                                                   remaining: 1m
333:
        learn: 0.0339137
                                  total: 2m
                                                   remaining: 1m
                                  total: 2m 1s
334:
        learn: 0.0337881
                                                   remaining: 59.7s
335:
        learn: 0.0336608
                                  total: 2m 1s
                                                   remaining: 59.3s
                                                   remaining: 59s
336:
        learn: 0.0335001
                                  total: 2m 1s
337:
        learn: 0.0333341
                                  total: 2m 2s
                                                   remaining: 58.6s
338:
        learn: 0.0331607
                                  total: 2m 2s
                                                   remaining: 58.3s
339:
        learn: 0.0329907
                                  total: 2m 3s
                                                   remaining: 58s
340:
        learn: 0.0328447
                                  total: 2m 3s
                                                   remaining: 57.6s
                                  total: 2m 3s
341:
        learn: 0.0326638
                                                   remaining: 57.3s
342:
                                  total: 2m 4s
        learn: 0.0325420
                                                   remaining: 56.9s
                                  total: 2m 4s
343:
        learn: 0.0324171
                                                   remaining: 56.5s
344:
                                  total: 2m 4s
        learn: 0.0322626
                                                   remaining: 56.2s
                                  total: 2m 5s
345:
        learn: 0.0321413
                                                   remaining: 55.8s
                                  total: 2m 5s
346:
        learn: 0.0319750
                                                   remaining: 55.4s
347:
                                  total: 2m 6s
        learn: 0.0317949
                                                   remaining: 55.1s
348:
        learn: 0.0316130
                                  total: 2m 6s
                                                   remaining: 54.7s
349:
        learn: 0.0313970
                                  total: 2m 6s
                                                   remaining: 54.3s
350:
        learn: 0.0312791
                                  total: 2m 7s
                                                   remaining: 54s
351:
                                  total: 2m 7s
        learn: 0.0311468
                                                   remaining: 53.6s
352:
        learn: 0.0310117
                                  total: 2m 7s
                                                   remaining: 53.2s
353:
        learn: 0.0308569
                                  total: 2m 8s
                                                   remaining: 52.9s
                                  total: 2m 8s
354:
        learn: 0.0307328
                                                   remaining: 52.5s
                                  total: 2m 8s
355:
                                                   remaining: 52.1s
        learn: 0.0305654
                                  total: 2m 9s
356:
        learn: 0.0304177
                                                   remaining: 51.8s
                                                   remaining: 51.4s
357:
        learn: 0.0303117
                                  total: 2m 9s
358:
                                  total: 2m 9s
        learn: 0.0301749
                                                   remaining: 51s
359:
        learn: 0.0300658
                                  total: 2m 10s
                                                   remaining: 50.7s
360:
        learn: 0.0299241
                                  total: 2m 10s
                                                   remaining: 50.3s
361:
        learn: 0.0297955
                                  total: 2m 11s
                                                   remaining: 49.9s
                                  total: 2m 11s
362:
        learn: 0.0296766
                                                   remaining: 49.6s
363:
        learn: 0.0296066
                                  total: 2m 11s
                                                   remaining: 49.2s
364:
        learn: 0.0294294
                                  total: 2m 12s
                                                   remaining: 48.8s
                                  total: 2m 12s
365:
        learn: 0.0293033
                                                   remaining: 48.5s
```

366:	learn: 0.0291263	total: 2m 12s	remaining: 48.1s
367:	learn: 0.0290092	total: 2m 13s	remaining: 47.8s
368:	learn: 0.0289011	total: 2m 13s	remaining: 47.4s
369:	learn: 0.0287610	total: 2m 13s	remaining: 47s
370:	learn: 0.0286080	total: 2m 14s	remaining: 46.7s
371:	learn: 0.0284636	total: 2m 14s	remaining: 46.4s
372:	learn: 0.0283481	total: 2m 15s	remaining: 46s
373:	learn: 0.0282219	total: 2m 15s	remaining: 45.7s
374:	learn: 0.0281254	total: 2m 16s	remaining: 45.3s
375:	learn: 0.0280166	total: 2m 16s	remaining: 45s
376:	learn: 0.0279197	total: 2m 16s	remaining: 44.7s
377: 378:	learn: 0.0277730 learn: 0.0276565	total: 2m 17s total: 2m 17s	remaining: 44.3s
378. 379:	learn: 0.0275418	total: 2m 18s	remaining: 44s remaining: 43.6s
380:	learn: 0.0274608	total: 2m 18s	remaining: 43.3s
381:	learn: 0.0274000	total: 2m 19s	remaining: 43.55
382:	learn: 0.0272317	total: 2m 19s	remaining: 42.7s
383:	learn: 0.0271245	total: 2m 20s	remaining: 42.4s
384:	learn: 0.0269804	total: 2m 20s	remaining: 42s
385:	learn: 0.0268442	total: 2m 21s	remaining: 41.7s
386:	learn: 0.0267244	total: 2m 21s	remaining: 41.3s
387:	learn: 0.0266410	total: 2m 22s	remaining: 41s
388:	learn: 0.0264514	total: 2m 22s	remaining: 40.7s
389:	learn: 0.0263454	total: 2m 23s	remaining: 40.4s
390:	learn: 0.0262239	total: 2m 23s	remaining: 40s
391:	learn: 0.0260873	total: 2m 23s	remaining: 39.7s
392:	learn: 0.0259900	total: 2m 24s	remaining: 39.3s
393:	learn: 0.0258957	total: 2m 24s	remaining: 38.9s
394:	learn: 0.0257961	total: 2m 25s	remaining: 38.6s
395:	learn: 0.0256350	total: 2m 25s	remaining: 38.2s
396: 397:	learn: 0.0255244 learn: 0.0254094	total: 2m 25s total: 2m 26s	remaining: 37.8s remaining: 37.5s
398:	learn: 0.0253142	total: 2m 26s	remaining: 37.3s
399:	learn: 0.0251946	total: 2m 26s	remaining: 36.7s
400:	learn: 0.0251081	total: 2m 27s	remaining: 36.3s
401:	learn: 0.0249908	total: 2m 27s	remaining: 36s
402:	learn: 0.0248903	total: 2m 27s	remaining: 35.6s
403:	learn: 0.0247670	total: 2m 28s	remaining: 35.2s
404:	learn: 0.0246744	total: 2m 28s	remaining: 34.9s
405:	learn: 0.0245960	total: 2m 28s	remaining: 34.5s
406:	learn: 0.0244921	total: 2m 29s	remaining: 34.1s
407:	learn: 0.0244280	total: 2m 29s	remaining: 33.8s
408:	learn: 0.0243135	total: 2m 30s	remaining: 33.4s
409:	learn: 0.0241945	total: 2m 30s	remaining: 33s
410:	learn: 0.0241172	total: 2m 30s	remaining: 32.6s
411:	learn: 0.0240034	total: 2m 31s	remaining: 32.3s
412:	learn: 0.0239326	total: 2m 31s	remaining: 31.9s
413: 414:	learn: 0.0238607	total: 2m 31s	remaining: 31.5s
414. 415:	learn: 0.0237767 learn: 0.0236767	total: 2m 32s total: 2m 32s	remaining: 31.2s remaining: 30.8s
415. 416:	learn: 0.0235455	total: 2m 32s	remaining: 30.4s
410. 417:	learn: 0.0234616	total: 2m 33s	remaining: 30.4s
417:	learn: 0.0233594	total: 2m 33s	remaining: 30.13
419:	learn: 0.0232806	total: 2m 33s	remaining: 29.3s
420:	learn: 0.0231343	total: 2m 34s	remaining: 29s
421:	learn: 0.0230367	total: 2m 34s	remaining: 28.6s
422:	learn: 0.0229455	total: 2m 35s	remaining: 28.3s
423:	learn: 0.0228553	total: 2m 35s	remaining: 27.9s
424:	learn: 0.0227754	total: 2m 35s	remaining: 27.5s

425:	learn: 0.0226536	total: 2m 36s	remaining:	27.1s
426:	learn: 0.0225593	total: 2m 36s	remaining:	26.8s
427:	learn: 0.0224745	total: 2m 37s	remaining:	26.4s
428:	learn: 0.0223914	total: 2m 37s	remaining:	
429:	learn: 0.0222761	total: 2m 37s	remaining:	
430:	learn: 0.0222701	total: 2m 38s	remaining:	
			•	
431:	learn: 0.0220836	total: 2m 38s	remaining:	
432:	learn: 0.0220227	total: 2m 38s	remaining:	
433:	learn: 0.0219211	total: 2m 39s	remaining:	
434:	learn: 0.0218399	total: 2m 39s	remaining:	23.8s
435:	learn: 0.0217627	total: 2m 39s	remaining:	23.5s
436:	learn: 0.0216698	total: 2m 40s	remaining:	23.1s
437:	learn: 0.0215516	total: 2m 40s	remaining:	22.7s
438:	learn: 0.0214621	total: 2m 40s	remaining:	
439:	learn: 0.0213845	total: 2m 41s	remaining:	
440:	learn: 0.0212808	total: 2m 41s	remaining:	
441:	learn: 0.0212888	total: 2m 41s	remaining:	
			_	21.3s
442:	learn: 0.0211325	total: 2m 42s	remaining:	
443:	learn: 0.0210590	total: 2m 42s	remaining:	
444:	learn: 0.0209576	total: 2m 43s	remaining:	20.2s
445:	learn: 0.0208795	total: 2m 43s	remaining:	19.8s
446:	learn: 0.0207956	total: 2m 43s	remaining:	19.4s
447:	learn: 0.0207441	total: 2m 44s	remaining:	19.1s
448:	learn: 0.0206637	total: 2m 44s	remaining:	18.7s
449:	learn: 0.0205598	total: 2m 44s	remaining:	18.3s
450:	learn: 0.0203330	total: 2m 45s	remaining:	18s
451:	learn: 0.0204774	total: 2m 45s	remaining:	17.6s
			•	
452:	learn: 0.0203438		remaining:	
453:	learn: 0.0202672	total: 2m 46s	remaining:	16.9s
454:	learn: 0.0201998	total: 2m 46s	remaining:	
455:	learn: 0.0201233	total: 2m 47s	remaining:	16.1s
456:	learn: 0.0200362	total: 2m 47s	remaining:	15.7s
457:	learn: 0.0199616	total: 2m 47s	remaining:	15.4s
458:	learn: 0.0198755	total: 2m 48s	remaining:	15s
459:	learn: 0.0197777	total: 2m 48s	remaining:	14.6s
460:	learn: 0.0197209	total: 2m 48s	remaining:	14.3s
461:	learn: 0.0196622	total: 2m 49s	remaining:	
462:	learn: 0.0195998	total: 2m 49s	remaining:	
463:	learn: 0.0195908	total: 2m 49s	remaining:	
			_	
464:	learn: 0.0194307	total: 2m 50s	remaining:	12.8s
465:	learn: 0.0193472	total: 2m 50s	remaining:	12.5s
466:	learn: 0.0192641	total: 2m 51s	remaining:	
467:	learn: 0.0191716	total: 2m 51s	remaining:	
468:	learn: 0.0191175	total: 2m 51s	remaining:	11.4s
469:	learn: 0.0190453	total: 2m 52s	remaining:	11s
470:	learn: 0.0190029	total: 2m 52s	remaining:	10.6s
471:	learn: 0.0189314	total: 2m 52s	remaining:	10.3s
472:	learn: 0.0188594	total: 2m 53s	remaining:	
473:	learn: 0.0187947	total: 2m 53s	remaining:	
474:	learn: 0.0187329	total: 2m 54s	remaining:	
			•	
475:	learn: 0.0186817	total: 2m 54s	remaining:	
476:	learn: 0.0186010	total: 2m 54s	remaining:	
477:	learn: 0.0185185	total: 2m 55s	remaining:	
478:	learn: 0.0184381	total: 2m 55s	•	7.69s
479:	learn: 0.0183481	total: 2m 55s	remaining:	
480:	learn: 0.0182834	total: 2m 56s	remaining:	6.96s
481:	learn: 0.0181942	total: 2m 56s	remaining:	6.59s
482:	learn: 0.0181283	total: 2m 56s	remaining:	
483:	learn: 0.0180707	total: 2m 57s	remaining:	
. 55 •		a		

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484:
        learn: 0.0180107
                                total: 2m 57s
                                                 remaining: 5.49s
485:
                                total: 2m 57s
        learn: 0.0179539
                                                 remaining: 5.13s
                                total: 2m 58s
486:
        learn: 0.0178908
                                                 remaining: 4.76s
                                total: 2m 58s
487:
        learn: 0.0178407
                                                 remaining: 4.39s
488:
                                total: 2m 59s
                                                 remaining: 4.03s
        learn: 0.0177577
489:
        learn: 0.0176861
                                total: 2m 59s
                                                 remaining: 3.66s
490:
        learn: 0.0176240
                                total: 2m 59s
                                                 remaining: 3.29s
491:
        learn: 0.0175778
                                total: 3m
                                                 remaining: 2.93s
492:
        learn: 0.0174654
                                total: 3m
                                                 remaining: 2.56s
493:
                                total: 3m
        learn: 0.0174207
                                                 remaining: 2.2s
494:
        learn: 0.0173557
                                total: 3m 1s
                                                 remaining: 1.83s
495:
        learn: 0.0172855
                                total: 3m 1s
                                                 remaining: 1.46s
        learn: 0.0172281
                                total: 3m 1s
496:
                                                 remaining: 1.1s
497:
        learn: 0.0171650
                                total: 3m 2s
                                                 remaining: 732ms
498:
        learn: 0.0171256
                                total: 3m 2s
                                                 remaining: 366ms
499:
        learn: 0.0170744
                                total: 3m 2s
                                                 remaining: Ous
      learning_rate=0.3, 12_leaf_reg=10, iterations=500, depth=10, ctr_b
[CV]
```

order_count=50, border_count=10, score=0.8450486311079927, total= 3.2min

[Parallel(n_jobs=1)]: Done 15 out of 15 | elapsed: 23.5min finished

0:	learn: 0.6664252	total: 210ms	remaining: 3m 29s
1:	learn: 0.6419084	total: 476ms	remaining: 3m 57s
2:	learn: 0.6187816	total: 693ms	remaining: 3m 50s
3:	learn: 0.5973321	total: 929ms	remaining: 3m 51s
			J
4:	learn: 0.5770151	total: 1.16s	remaining: 3m 51s
5:	learn: 0.5584875	total: 1.35s	remaining: 3m 44s
6:	learn: 0.5413837	total: 1.59s	remaining: 3m 45s
7:	learn: 0.5256106	total: 1.82s	remaining: 3m 45s
8:	learn: 0.5110618	total: 2.04s	remaining: 3m 44s
9:	learn: 0.4975185	total: 2.25s	remaining: 3m 42s
10:	learn: 0.4847986	total: 2.45s	remaining: 3m 40s
			•
11:	learn: 0.4729042	total: 2.63s	remaining: 3m 36s
12:	learn: 0.4618277	total: 2.84s	remaining: 3m 35s
13:	learn: 0.4516937	total: 3.06s	remaining: 3m 35s
14:	learn: 0.4421164	total: 3.29s	remaining: 3m 36s
15:	learn: 0.4325883	total: 3.5s	remaining: 3m 35s
16:	learn: 0.4238668	total: 3.71s	remaining: 3m 34s
17:	learn: 0.4160535	total: 3.93s	remaining: 3m 34s
			S
18:	learn: 0.4085753	total: 4.15s	remaining: 3m 34s
19:	learn: 0.4016526	total: 4.33s	remaining: 3m 32s
20:	learn: 0.3949289	total: 4.52s	remaining: 3m 30s
21:	learn: 0.3887377	total: 4.73s	remaining: 3m 30s
22:	learn: 0.3827219	total: 4.92s	remaining: 3m 28s
23:	learn: 0.3773389	total: 5.09s	remaining: 3m 27s
24:	learn: 0.3725105	total: 5.26s	remaining: 3m 25s
			_
25:	learn: 0.3680824	total: 5.47s	remaining: 3m 25s
26:	learn: 0.3635389	total: 5.66s	remaining: 3m 24s
27:	learn: 0.3594056	total: 5.87s	remaining: 3m 23s
28:	learn: 0.3555285	total: 6.04s	remaining: 3m 22s
29:	learn: 0.3520908	total: 6.25s	remaining: 3m 22s
30:	learn: 0.3487799	total: 6.51s	remaining: 3m 23s
31:	learn: 0.3455499	total: 6.76s	remaining: 3m 24s
			_
32:	learn: 0.3426361	total: 7.02s	remaining: 3m 25s
33:	learn: 0.3398982	total: 7.27s	remaining: 3m 26s
34:	learn: 0.3371079	total: 7.5s	remaining: 3m 26s
35:	learn: 0.3345766	total: 7.7s	remaining: 3m 26s
36:	learn: 0.3320606	total: 7.9s	remaining: 3m 25s
37:	learn: 0.3299241	total: 8.1s	remaining: 3m 24s
38:	learn: 0.3277165	total: 8.26s	remaining: 3m 23s
			<u> </u>
39:	learn: 0.3256423	total: 8.46s	remaining: 3m 22s
40:	learn: 0.3237237	total: 8.62s	remaining: 3m 21s
41:	learn: 0.3217219	total: 8.8s	remaining: 3m 20s
42:	learn: 0.3199862	total: 8.97s	remaining: 3m 19s
43:	learn: 0.3183112	total: 9.15s	remaining: 3m 18s
44:	learn: 0.3167227	total: 9.33s	remaining: 3m 17s
45:	learn: 0.3151608	total: 9.52s	remaining: 3m 17s
			<u> </u>
46:	learn: 0.3137172	total: 9.69s	remaining: 3m 16s
47:	learn: 0.3122847	total: 9.87s	remaining: 3m 15s
48:	learn: 0.3109433	total: 10s	remaining: 3m 14s
49:	learn: 0.3096997	total: 10.2s	remaining: 3m 14s
50:	learn: 0.3084620	total: 10.4s	remaining: 3m 13s
51:	learn: 0.3073681	total: 10.6s	remaining: 3m 12s
52:	learn: 0.3062582	total: 10.03	remaining: 3m 11s
			•
53:	learn: 0.3052367	total: 10.9s	remaining: 3m 11s
54:	learn: 0.3042068	total: 11.1s	remaining: 3m 10s
55:	learn: 0.3033016	total: 11.3s	remaining: 3m 9s
56:	learn: 0.3023207	total: 11.4s	remaining: 3m 8s
57:	learn: 0.3013559	total: 11.6s	remaining: 3m 8s
			5

58:	learn•	0.3004544	total:	11 8c	remaining:	3m	۸c
59:		0.2996442	total:		remaining:		
60:		0.2988670	total:		remaining:		
61:		0.2980908	total:		remaining:		
62:		0.2973941	total:		remaining:		5s
63:	learn:	0.2966810	total:		remaining:		5s
64:		0.2959398	total:		remaining:		
65:		0.2952421	total:		remaining:		
66:		0.2945849		13.2s	remaining:		
67:		0.2939628	total:		remaining:		
67. 68:	learn:	0.2933441		13.4s 13.6s	remaining:		
69:		0.2927595	total:	13.8s	•		3s
70:		0.2921433	total:		<pre>remaining: remaining:</pre>	3m	
		0.2915796			•		
71:			total:		remaining:		
72:		0.2910166	total:		remaining:		15
73:	learn:		total:		remaining:	3m	
74:		0.2899726	total:	14.6s	remaining:	3m	
75:		0.2894419	total:		remaining:		
76:		0.2889304	total:	15s	remaining:		59s
77:		0.2884307	total:		remaining:		59s
78:		0.2879684		15.3s	remaining:		58s
79:		0.2874977	total:	15.5s	remaining:		58s
80:		0.2870355	total:		remaining:		58s
81:	learn:			15.9s	remaining:		57s
82:		0.2861394	total:	16.1s	remaining:		57s
83:		0.2856917	total:		remaining:		57s
84:	learn:	0.2852789	total:	16.4s	remaining:		56s
85:		0.2848493	total:	16.6s	remaining:	2m	56s
86:	learn:	0.2844345	total:	16.8s	remaining:	2m	56s
87:	learn:	0.2840265	total:		remaining:	2m	56s
88:	learn:	0.2835847	total:	17.2s	remaining:	2m	55s
89:	learn:	0.2831849	total:	17.3s	remaining:	2m	55s
90:	learn:	0.2827974	total:	17.5s	remaining:	2m	55s
91:	learn:	0.2824163	total:	17.7s	remaining:	2m	54s
92:	learn:	0.2820230	total:	17.9s	remaining:	2m	54s
93:	learn:	0.2816502	total:	18.1s	remaining:	2m	54s
94:	learn:	0.2812649	total:	18.2s	remaining:	2m	53s
95:	learn:	0.2808903	total:	18.4s	remaining:	2m	53s
96:	learn:	0.2805280	total:	18.6s	remaining:	2m	53s
97:	learn:	0.2802044	total:	18.8s	remaining:	2m	52s
98:	learn:	0.2798544	total:	19s	remaining:	2m	52s
99:	learn:	0.2795168	total:	19.1s	remaining:	2m	52s
100:	learn:	0.2791722	total:	19.3s	remaining:	2m	51s
101:	learn:	0.2788427	total:	19.5s	remaining:	2m	51s
102:	learn:	0.2785065	total:	19.7s	remaining:	2m	51s
103:	learn:	0.2781765	total:	19.8s	remaining:	2m	51s
104:	learn:	0.2777945	total:	20.1s	remaining:		51s
105:	learn:	0.2774497	total:	20.2s	remaining:		50s
106:	learn:	0.2771163		20.4s	remaining:		50s
107:	learn:	0.2767795	total:	20.6s	remaining:		50s
108:	learn:	0.2764627	total:		remaining:		49s
109:		0.2761460	total:		remaining:		49s
110:		0.2758224	total:		remaining:		49s
111:		0.2755026		21.3s	remaining:		48s
112:		0.2751851	total:		remaining:		48s
113:	learn:	0.2748583	total:		remaining:		48s
114:		0.2745673	total:		remaining:		48s
115:		0.2742545	total:		remaining:		47s
116:		0.2739581	total:		remaining:		47s
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11/, 103bU, N //KPPN/ 10/31, 1/, 1/		17-
	ing: 2m 4	
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	lng: 2m 4	
	ing: 2m 4	
127: learn: 0.2707865 total: 24.3s remains	ing: 2m 4	45s
128: learn: 0.2705200 total: 24.5s remains	ing: 2m 4	45s
129: learn: 0.2702409 total: 24.7s remains	ing: 2m 4	45s
130: learn: 0.2699622 total: 24.9s remains	ing: 2m 4	45s
131: learn: 0.2696808 total: 25.1s remains	ing: 2m 4	44s
132: learn: 0.2694114 total: 25.2s remains	ing: 2m 4	44s
133: learn: 0.2691481 total: 25.4s remains	ing: 2m 4	14s
134: learn: 0.2688945 total: 25.6s remains	ing: 2m 4	14s
	ing: 2m 4	
143: learn: 0.2665773 total: 27.2s remains	_	
	ing: 2m 4	
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	lng: 2m 3	
	ing: 2m 3	
166: learn: 0.2610846 total: 31.4s remains	ing: 2m 3	36s
167: learn: 0.2608734 total: 31.6s remains	ing: 2m 3	36s
168: learn: 0.2606549 total: 31.8s remains	ing: 2m 3	36s
169: learn: 0.2604306 total: 32s remains	ing: 2m 3	36s
170: learn: 0.2602430 total: 32.2s remains	ing: 2m 3	35s
171: learn: 0.2600425 total: 32.4s remains	ing: 2m 3	35s
	ing: 2m 3	

176:	learn: 0.2589782	total: 33.2s	remaining:	2m 2/1c
170. 177:	learn: 0.2587804	total: 33.4s	remaining:	
177. 178:	learn: 0.2585463	total: 33.7s	remaining:	
178: 179:	learn: 0.2583479	total: 33.9s	remaining:	
180:	learn: 0.2581374	total: 34.1s	remaining:	
180:	learn: 0.2579191	total: 34.3s	remaining:	
182:	learn: 0.2577200	total: 34.5s	remaining:	
182: 183:			_	
	learn: 0.2575172	total: 34.6s	remaining:	
184:	learn: 0.2572991	total: 34.8s	remaining:	
185:	learn: 0.2570798	total: 35s	remaining:	
186:	learn: 0.2569048	total: 35.2s	remaining:	
187:	learn: 0.2567068	total: 35.4s	remaining:	
188:	learn: 0.2565082	total: 35.6s	remaining:	
189:	learn: 0.2563018	total: 35.8s	remaining:	
190:	learn: 0.2561078	total: 36s	remaining:	
191:	learn: 0.2559056	total: 36.2s	remaining:	
192:	learn: 0.2556994	total: 36.4s	remaining:	
193:	learn: 0.2555144	total: 36.6s	remaining:	
194:	learn: 0.2553138	total: 36.8s	remaining:	
195:	learn: 0.2551050	total: 37s	remaining:	
196:	learn: 0.2549037	total: 37.2s	remaining:	2m 31s
197:	learn: 0.2547065	total: 37.4s	remaining:	2m 31s
198:	learn: 0.2545247	total: 37.6s	remaining:	2m 31s
199:	learn: 0.2543248	total: 37.7s	remaining:	2m 30s
200:	learn: 0.2541237	total: 37.9s	remaining:	2m 30s
201:	learn: 0.2539254	total: 38.1s	remaining:	2m 30s
202:	learn: 0.2537108	total: 38.3s	remaining:	2m 30s
203:	learn: 0.2535049	total: 38.6s	remaining:	2m 30s
204:	learn: 0.2533206	total: 38.8s	remaining:	2m 30s
205:	learn: 0.2531189	total: 39s	remaining:	2m 30s
206:	learn: 0.2529464	total: 39.2s	remaining:	2m 30s
207:	learn: 0.2527751	total: 39.5s	remaining:	2m 30s
208:	learn: 0.2525874	total: 39.6s	remaining:	
209:	learn: 0.2523783	total: 39.8s	remaining:	
210:	learn: 0.2521840	total: 40.1s	remaining:	
211:	learn: 0.2519917	total: 40.2s	remaining:	
212:	learn: 0.2517987	total: 40.4s	remaining:	
213:	learn: 0.2516062	total: 40.6s	remaining:	
214:	learn: 0.2514379	total: 40.8s	remaining:	
215:	learn: 0.2512539	total: 41s	remaining:	
216:	learn: 0.2510734	total: 41.1s	remaining:	
217:	learn: 0.2508853	total: 41.3s	remaining:	
218:	learn: 0.2507085	total: 41.5s	remaining:	
219:	learn: 0.2505234	total: 41.7s	remaining:	
220:	learn: 0.2503261	total: 41.9s	remaining:	
221:	learn: 0.2501393	total: 42.2s	remaining:	
222:	learn: 0.2499665	total: 42.3s	remaining:	
223:	learn: 0.2497785	total: 42.5s	remaining:	
223:	learn: 0.2495899	total: 42.7s	remaining:	
224:	learn: 0.2494035	total: 42.7s	remaining:	
225:	learn: 0.2492377	total: 42.95	remaining: remaining:	
225:	learn: 0.2490722	total: 43.1s	remaining: remaining:	
228:	learn: 0.2488965	total: 43.4s	remaining:	
229:	learn: 0.2487177	total: 43.6s	remaining:	
230:	learn: 0.2485548	total: 43.8s	remaining:	
231:	learn: 0.2483808	total: 44s	remaining:	
232:	learn: 0.2482111	total: 44.2s	remaining:	
233:	learn: 0.2480299	total: 44.3s	remaining:	
234:	learn: 0.2478545	total: 44.5s	remaining:	2m 24s

235:	learn: 0.2476795	total: 44.7s	remaining:	2m 2/1c
236:	learn: 0.2475097	total: 44.7s	remaining:	
237:	learn: 0.2473554	total: 45.1s	remaining:	
237:	learn: 0.2471956	total: 45.3s	remaining:	
239:	learn: 0.2470211	total: 45.4s	remaining:	
240:	learn: 0.2468744	total: 45.7s	remaining:	
240. 241:	learn: 0.2467166	total: 45.7s	remaining:	
241. 242:		total: 45.85	_	
	learn: 0.2465407		remaining:	
243:	learn: 0.2463687	total: 46.2s	remaining:	
244:	learn: 0.2462077	total: 46.4s	remaining:	
245:	learn: 0.2460395	total: 46.6s	remaining:	
246:	learn: 0.2458822	total: 46.7s	remaining:	
247:	learn: 0.2457211	total: 46.9s	remaining:	
248:	learn: 0.2455616	total: 47.1s	remaining:	
249:	learn: 0.2454015	total: 47.3s	remaining:	
250:	learn: 0.2452513	total: 47.4s	remaining:	
251:	learn: 0.2450819	total: 47.6s	remaining:	
252:	learn: 0.2449215	total: 47.8s	remaining:	
253:	learn: 0.2447643	total: 48s	remaining:	
254:	learn: 0.2446121	total: 48.2s	remaining:	
255:	learn: 0.2444503	total: 48.4s	remaining:	2m 20s
256:	learn: 0.2442741	total: 48.6s	remaining:	2m 20s
257:	learn: 0.2441014	total: 48.8s	remaining:	2m 20s
258:	learn: 0.2439435	total: 49s	remaining:	2m 20s
259:	learn: 0.2437824	total: 49.2s	remaining:	2m 19s
260:	learn: 0.2436320	total: 49.3s	remaining:	2m 19s
261:	learn: 0.2434906	total: 49.5s	remaining:	2m 19s
262:	learn: 0.2433407	total: 49.7s	remaining:	2m 19s
263:	learn: 0.2431960	total: 49.9s	remaining:	2m 19s
264:	learn: 0.2430318	total: 50.1s	remaining:	2m 18s
265:	learn: 0.2428930	total: 50.3s	remaining:	
266:	learn: 0.2427301	total: 50.4s	remaining:	2m 18s
267:	learn: 0.2425930	total: 50.6s	remaining:	
268:	learn: 0.2424510	total: 50.8s	remaining:	
269:	learn: 0.2422840	total: 51s	remaining:	
270:	learn: 0.2421119	total: 51.2s	remaining:	
271:	learn: 0.2419635	total: 51.4s	remaining:	
272:	learn: 0.2418258	total: 51.6s	remaining:	
273:	learn: 0.2416925	total: 51.8s	remaining:	
274:	learn: 0.2415697	total: 51.9s	remaining:	
275:	learn: 0.2414312	total: 52.1s	remaining:	
276:	learn: 0.2412812	total: 52.3s	remaining:	
277:	learn: 0.2411247	total: 52.5s	remaining:	
278:	learn: 0.2409810	total: 52.7s	remaining:	
279:	learn: 0.2408418	total: 52.75	remaining:	
280:	learn: 0.2407109	total: 53.1s	remaining:	
281:	learn: 0.2405606	total: 53.2s	remaining:	
282:	learn: 0.2404226	total: 53.5s	remaining:	
283:	learn: 0.2402830	total: 53.6s	remaining:	
284:	learn: 0.2401510	total: 53.8s	remaining:	
285:	learn: 0.2400006	total: 53.65	remaining:	
286:	learn: 0.2398525	total: 54.2s	remaining:	
287:	learn: 0.2397232	total: 54.25	remaining:	
			_	
288:	learn: 0.2395705	total: 54.7s	remaining:	
289:	learn: 0.2394428	total: 54.9s	remaining:	
290:	learn: 0.2392942	total: 55.2s	remaining:	
291:	learn: 0.2391644	total: 55.4s	remaining:	
292:	learn: 0.2390405	total: 55.6s	remaining:	
293:	learn: 0.2389054	total: 55.7s	remaining:	2m 13s

294:	learn: 0.2387602	total: 55.9s	remaining:	2m 13c
295:	learn: 0.2386158	total: 56.1s	remaining:	
296:	learn: 0.2384781	total: 56.3s	remaining:	
297:	learn: 0.2383472	total: 56.5s	remaining:	
298:	learn: 0.2382296	total: 56.7s	remaining:	
299:	learn: 0.2380896	total: 56.9s	remaining:	
300:	learn: 0.2379481	total: 57.1s	remaining:	
301:	learn: 0.2378273	total: 57.1s	remaining:	
302:	learn: 0.2376993	total: 57.4s	remaining:	
303:	learn: 0.2375781 learn: 0.2374433	total: 57.6s total: 57.8s	remaining:	
304:			remaining:	2m 11s
305:	learn: 0.2373123	total: 58s	remaining:	
306:	learn: 0.2371779	total: 58.2s	remaining:	
307:	learn: 0.2370543	total: 58.4s	remaining:	
308:	learn: 0.2369140	total: 58.6s	remaining:	
309:	learn: 0.2367699	total: 58.8s	remaining:	
310:	learn: 0.2366221	total: 59s	remaining:	
311:	learn: 0.2364822	total: 59.1s	remaining:	
312:	learn: 0.2363549	total: 59.3s	remaining:	
313:	learn: 0.2362199	total: 59.5s	remaining:	
314:	learn: 0.2360860	total: 59.7s	remaining:	
315:	learn: 0.2359713	total: 59.9s	remaining:	2m 9s
316:	learn: 0.2358423	total: 1m	remaining:	
317:	learn: 0.2357267	total: 1m	remaining:	2m 9s
318:	learn: 0.2355810	total: 1m	remaining:	
319:	learn: 0.2354533	total: 1m	remaining:	
320:	learn: 0.2353162	total: 1m	remaining:	2m 8s
321:	learn: 0.2351915	total: 1m 1s	remaining:	
322:	learn: 0.2350577	total: 1m 1s	remaining:	
323:	learn: 0.2349177	total: 1m 1s	remaining:	
324:	learn: 0.2347936	total: 1m 1s	remaining:	
325:	learn: 0.2346576	total: 1m 1s		2m 7s
326:	learn: 0.2345207 learn: 0.2343799	total: 1m 1s	remaining:	2m 7s
327: 328:	learn: 0.2342460	total: 1m 2s total: 1m 2s	remaining:	
320. 329:	learn: 0.2340997	total: 1m 2s total: 1m 2s	remaining:	2m 7s 2m 7s
329. 330:	learn: 0.2339712	total: 1m 2s	<pre>remaining: remaining:</pre>	
330. 331:	learn: 0.2338473	total: 1m 2s	remaining.	
332:	learn: 0.2337296	total: 1m 3s	remaining:	
333:	learn: 0.2335940	total: 1m 3s	remaining:	2m 6s
334:	learn: 0.2334697	total: 1m 3s	remaining:	2m 6s
335:	learn: 0.2333348	total: 1m 3s	remaining:	
336:	learn: 0.2332072	total: 1m 3s	remaining:	
337:	learn: 0.2330692	total: 1m 4s	remaining:	
338:	learn: 0.2329572	total: 1m 4s	remaining:	2m 5s
339:	learn: 0.2328456	total: 1m 4s	remaining:	2m 4s
340:	learn: 0.2327160	total: 1m 4s	remaining:	
341:	learn: 0.2325954	total: 1m 4s	remaining:	2m 4s
342:	learn: 0.2324759	total: 1m 4s	remaining:	
343:	learn: 0.2323538	total: 1m 5s	remaining:	
344:	learn: 0.2322300	total: 1m 5s	remaining:	2m 4s
345:	learn: 0.2320976	total: 1m 5s	remaining:	
346:	learn: 0.2319749	total: 1m 5s	remaining:	2m 3s
347:	learn: 0.2318558	total: 1m 5s	remaining:	
348:	learn: 0.2317248	total: 1m 6s	remaining:	
349:	learn: 0.2316104	total: 1m 6s	remaining:	2m 3s
350:	learn: 0.2314964	total: 1m 6s	remaining:	2m 3s
351:	learn: 0.2313699	total: 1m 6s	remaining:	2m 2s
352:	learn: 0.2312497	total: 1m 6s	remaining:	
	·			-

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353:
                                  total: 1m 7s
                                                   remaining: 2m 2s
        learn: 0.2311244
354:
        learn: 0.2310134
                                  total: 1m 7s
                                                   remaining: 2m 2s
355:
                                                   remaining: 2m 2s
        learn: 0.2308928
                                  total: 1m 7s
                                  total: 1m 7s
                                                   remaining: 2m 1s
356:
        learn: 0.2307635
357:
        learn: 0.2306506
                                  total: 1m 7s
                                                   remaining: 2m 1s
358:
        learn: 0.2305398
                                  total: 1m 8s
                                                   remaining: 2m 1s
359:
        learn: 0.2304092
                                  total: 1m 8s
                                                   remaining: 2m 1s
360:
        learn: 0.2302931
                                  total: 1m 8s
                                                   remaining: 2m 1s
361:
        learn: 0.2301774
                                  total: 1m 8s
                                                   remaining: 2m
362:
        learn: 0.2300573
                                  total: 1m 8s
                                                   remaining: 2m
363:
        learn: 0.2299334
                                  total: 1m 9s
                                                   remaining: 2m
                                                   remaining: 2m
364:
        learn: 0.2298242
                                  total: 1m 9s
        learn: 0.2297092
                                  total: 1m 9s
365:
                                                   remaining: 2m
366:
        learn: 0.2296159
                                  total: 1m 9s
                                                   remaining: 2m
                                  total: 1m 9s
367:
        learn: 0.2295043
                                                   remaining: 1m 59s
368:
        learn: 0.2293886
                                  total: 1m 9s
                                                   remaining: 1m 59s
369:
        learn: 0.2292813
                                  total: 1m 10s
                                                   remaining: 1m 59s
370:
        learn: 0.2291643
                                  total: 1m 10s
                                                   remaining: 1m 59s
        learn: 0.2290480
                                  total: 1m 10s
371:
                                                   remaining: 1m 59s
372:
        learn: 0.2289195
                                  total: 1m 10s
                                                   remaining: 1m 59s
373:
        learn: 0.2288075
                                  total: 1m 11s
                                                   remaining: 1m 59s
                                  total: 1m 11s
374:
        learn: 0.2287009
                                                   remaining: 1m 58s
375:
        learn: 0.2285847
                                  total: 1m 11s
                                                   remaining: 1m 58s
376:
        learn: 0.2284691
                                  total: 1m 11s
                                                   remaining: 1m 58s
377:
                                  total: 1m 11s
        learn: 0.2283425
                                                   remaining: 1m 58s
                                  total: 1m 12s
378:
        learn: 0.2282108
                                                   remaining: 1m 58s
                                                   remaining: 1m 58s
379:
        learn: 0.2281008
                                  total: 1m 12s
380:
                                  total: 1m 12s
        learn: 0.2279810
                                                   remaining: 1m 57s
381:
        learn: 0.2278589
                                  total: 1m 12s
                                                   remaining: 1m 57s
382:
        learn: 0.2277598
                                  total: 1m 12s
                                                   remaining: 1m 57s
383:
        learn: 0.2276442
                                  total: 1m 13s
                                                   remaining: 1m 57s
384:
        learn: 0.2275293
                                  total: 1m 13s
                                                   remaining: 1m 57s
385:
        learn: 0.2274178
                                  total: 1m 13s
                                                   remaining: 1m 56s
386:
        learn: 0.2273002
                                  total: 1m 13s
                                                   remaining: 1m 56s
387:
        learn: 0.2271842
                                  total: 1m 13s
                                                   remaining: 1m 56s
388:
                                  total: 1m 14s
        learn: 0.2270817
                                                   remaining: 1m 56s
                                  total: 1m 14s
389:
        learn: 0.2269584
                                                   remaining: 1m 56s
390:
                                  total: 1m 14s
        learn: 0.2268507
                                                   remaining: 1m 55s
                                  total: 1m 14s
391:
        learn: 0.2267340
                                                   remaining: 1m 55s
392:
                                  total: 1m 14s
                                                   remaining: 1m 55s
        learn: 0.2266217
393:
        learn: 0.2265099
                                  total: 1m 15s
                                                   remaining: 1m 55s
394:
        learn: 0.2263934
                                  total: 1m 15s
                                                   remaining: 1m 55s
395:
        learn: 0.2262754
                                  total: 1m 15s
                                                   remaining: 1m 54s
396:
        learn: 0.2261716
                                  total: 1m 15s
                                                   remaining: 1m 54s
        learn: 0.2260454
                                  total: 1m 15s
397:
                                                   remaining: 1m 54s
398:
        learn: 0.2259321
                                  total: 1m 15s
                                                   remaining: 1m 54s
399:
        learn: 0.2258217
                                  total: 1m 16s
                                                   remaining: 1m 54s
                                  total: 1m 16s
400:
        learn: 0.2257044
                                                   remaining: 1m 54s
                                  total: 1m 16s
401:
        learn: 0.2255981
                                                   remaining: 1m 53s
402:
        learn: 0.2254937
                                  total: 1m 16s
                                                   remaining: 1m 53s
403:
        learn: 0.2253802
                                  total: 1m 16s
                                                   remaining: 1m 53s
        learn: 0.2252784
                                  total: 1m 17s
                                                   remaining: 1m 53s
404:
405:
        learn: 0.2251702
                                  total: 1m 17s
                                                   remaining: 1m 53s
406:
        learn: 0.2250636
                                  total: 1m 17s
                                                   remaining: 1m 52s
407:
        learn: 0.2249473
                                  total: 1m 17s
                                                   remaining: 1m 52s
                                  total: 1m 17s
408:
        learn: 0.2248474
                                                   remaining: 1m 52s
409:
        learn: 0.2247269
                                  total: 1m 18s
                                                   remaining: 1m 52s
410:
        learn: 0.2246190
                                  total: 1m 18s
                                                   remaining: 1m 52s
411:
        learn: 0.2245088
                                  total: 1m 18s
                                                   remaining: 1m 51s
```

412:	learn: 0.2244124	total: 1	m 10c	nomaining:	1m
412:	learn: 0.2243095	total: 1		<pre>remaining: remaining:</pre>	
413. 414:	learn: 0.2242017	total: 1		remaining:	
414. 415:	learn: 0.2242017	total: 1		remaining:	
415. 416:	learn: 0.2239905	total: 1		remaining:	
410. 417:	learn: 0.2238862		m 19s	_	
				remaining:	
418:	learn: 0.2237861	total: 1		remaining:	
419:	learn: 0.2236888	total: 1		remaining:	
420:	learn: 0.2235843		m 20s	remaining:	
421:	learn: 0.2234679	total: 1		remaining:	
422:	learn: 0.2233541		m 20s	remaining:	1m 49s
423:	learn: 0.2232504		m 20s	remaining:	
424:	learn: 0.2231364	total: 1		remaining:	
425:	learn: 0.2230315		m 21s	remaining:	
426:	learn: 0.2229211	total: 1		remaining:	
427:	learn: 0.2228163	total: 1		remaining:	
428:	learn: 0.2227235		m 21s	remaining:	1m 48s
429:	learn: 0.2226232	total: 1		remaining:	
430:	learn: 0.2225020	total: 1	m 21s	remaining:	
431:	learn: 0.2224062	total: 1	m 22s	remaining:	1m 48s
432:	learn: 0.2222994	total: 1	m 22s	remaining:	1m 47s
433:	learn: 0.2222065	total: 1	m 22s	remaining:	1m 47s
434:	learn: 0.2220983	total: 1	m 22s	remaining:	1m 47s
435:	learn: 0.2219986	total: 1	m 22s	remaining:	1m 47s
436:	learn: 0.2218955	total: 1	m 23s	remaining:	1m 47s
437:	learn: 0.2218052	total: 1	m 23s	remaining:	1m 46s
438:	learn: 0.2217079	total: 1	m 23s	remaining:	1m 46s
439:	learn: 0.2216102	total: 1	m 23s	remaining:	1m 46s
440:	learn: 0.2215092	total: 1	m 23s	remaining:	1m 46s
441:	learn: 0.2214200	total: 1	m 24s	remaining:	1m 46s
442:	learn: 0.2213187	total: 1	m 24s	remaining:	1m 45s
443:	learn: 0.2212173	total: 1	m 24s	remaining:	1m 45s
444:	learn: 0.2211148	total: 1	m 24s	remaining:	1m 45s
445:	learn: 0.2210214	total: 1	m 24s	remaining:	
446:	learn: 0.2209317	total: 1		remaining:	1m 45s
447:	learn: 0.2208282	total: 1		remaining:	
448:	learn: 0.2207253	total: 1	m 25s	remaining:	
449:	learn: 0.2206209	total: 1	m 25s	remaining:	
450:	learn: 0.2205260	total: 1		remaining:	
451:	learn: 0.2204306		m 25s	remaining:	1m 44s
452:	learn: 0.2203256		m 26s	remaining:	1m 43s
453:	learn: 0.2202253	total: 1		remaining:	
454:	learn: 0.2201306	total: 1		remaining:	
455:	learn: 0.2200397	total: 1		remaining:	
456:	learn: 0.2199404	total: 1		remaining:	
457:	learn: 0.2198399		m 27s	remaining:	1m 43s
458:	learn: 0.2197435	total: 1		remaining:	
459:	learn: 0.2196510	total: 1		remaining:	
460:	learn: 0.2195502		m 27s	remaining:	
461:	learn: 0.2194501	total: 1		remaining:	
462:	learn: 0.2193574		m 28s	remaining:	1m 42s
463:	learn: 0.2192633	total: 1		remaining:	
464:	learn: 0.2191586		m 28s	remaining:	
465:	learn: 0.2191360		m 28s	remaining:	
466:	learn: 0.2189448	total: 1		remaining:	
460: 467:	learn: 0.2188527		m 29s	remaining:	1m 41s
467: 468:	learn: 0.2187671		m 29s	remaining:	1m 41s
468: 469:	learn: 0.2186689	total: 1		remaining:	1m 41s
470:	learn: 0.2185806	total: 1	III 295	remaining:	TIII 405

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471:
                                  total: 1m 29s
                                                   remaining: 1m 40s
        learn: 0.2184901
                                                   remaining: 1m 40s
472:
        learn: 0.2183916
                                  total: 1m 30s
473:
                                  total: 1m 30s
                                                   remaining: 1m 40s
        learn: 0.2182845
                                  total: 1m 30s
                                                   remaining: 1m 40s
474:
        learn: 0.2181879
475:
        learn: 0.2180917
                                  total: 1m 30s
                                                   remaining: 1m 39s
476:
        learn: 0.2179958
                                  total: 1m 30s
                                                   remaining: 1m 39s
477:
        learn: 0.2179033
                                  total: 1m 31s
                                                   remaining: 1m 39s
                                                   remaining: 1m 39s
478:
                                  total: 1m 31s
        learn: 0.2178085
479:
        learn: 0.2177282
                                  total: 1m 31s
                                                   remaining: 1m 39s
480:
        learn: 0.2176375
                                  total: 1m 31s
                                                   remaining: 1m 38s
481:
        learn: 0.2175414
                                  total: 1m 31s
                                                   remaining: 1m 38s
482:
                                  total: 1m 31s
        learn: 0.2174459
                                                   remaining: 1m 38s
483:
        learn: 0.2173406
                                  total: 1m 32s
                                                   remaining: 1m 38s
484:
                                  total: 1m 32s
        learn: 0.2172422
                                                   remaining: 1m 38s
                                  total: 1m 32s
                                                   remaining: 1m 37s
485:
        learn: 0.2171533
                                  total: 1m 32s
486:
        learn: 0.2170506
                                                   remaining: 1m 37s
487:
                                  total: 1m 32s
        learn: 0.2169608
                                                   remaining: 1m 37s
488:
        learn: 0.2168645
                                  total: 1m 33s
                                                   remaining: 1m 37s
                                  total: 1m 33s
489:
        learn: 0.2167667
                                                   remaining: 1m 37s
490:
        learn: 0.2166698
                                  total: 1m 33s
                                                   remaining: 1m 36s
491:
        learn: 0.2165845
                                  total: 1m 33s
                                                   remaining: 1m 36s
                                  total: 1m 33s
492:
        learn: 0.2164965
                                                   remaining: 1m 36s
493:
        learn: 0.2164070
                                  total: 1m 34s
                                                   remaining: 1m 36s
494:
        learn: 0.2163174
                                  total: 1m 34s
                                                   remaining: 1m 36s
495:
                                  total: 1m 34s
        learn: 0.2162252
                                                   remaining: 1m 36s
                                  total: 1m 34s
496:
        learn: 0.2161393
                                                   remaining: 1m 35s
                                                   remaining: 1m 35s
497:
        learn: 0.2160501
                                  total: 1m 34s
498:
                                  total: 1m 35s
        learn: 0.2159613
                                                   remaining: 1m 35s
499:
        learn: 0.2158647
                                  total: 1m 35s
                                                   remaining: 1m 35s
500:
        learn: 0.2157890
                                  total: 1m 35s
                                                   remaining: 1m 35s
501:
        learn: 0.2157046
                                  total: 1m 35s
                                                   remaining: 1m 34s
502:
        learn: 0.2155982
                                  total: 1m 35s
                                                   remaining: 1m 34s
503:
        learn: 0.2155128
                                  total: 1m 36s
                                                   remaining: 1m 34s
504:
        learn: 0.2154280
                                  total: 1m 36s
                                                   remaining: 1m 34s
505:
        learn: 0.2153467
                                  total: 1m 36s
                                                   remaining: 1m 34s
                                  total: 1m 36s
506:
        learn: 0.2152692
                                                   remaining: 1m 33s
                                  total: 1m 36s
507:
        learn: 0.2151864
                                                   remaining: 1m 33s
                                  total: 1m 36s
508:
        learn: 0.2151000
                                                   remaining: 1m 33s
                                  total: 1m 37s
509:
        learn: 0.2150131
                                                   remaining: 1m 33s
510:
                                  total: 1m 37s
                                                   remaining: 1m 33s
        learn: 0.2149180
        learn: 0.2148215
                                  total: 1m 37s
511:
                                                   remaining: 1m 32s
512:
        learn: 0.2147362
                                  total: 1m 37s
                                                   remaining: 1m 32s
513:
        learn: 0.2146375
                                  total: 1m 37s
                                                   remaining: 1m 32s
514:
        learn: 0.2145384
                                  total: 1m 38s
                                                   remaining: 1m 32s
515:
        learn: 0.2144477
                                  total: 1m 38s
                                                   remaining: 1m 32s
516:
        learn: 0.2143645
                                  total: 1m 38s
                                                   remaining: 1m 31s
517:
        learn: 0.2142826
                                  total: 1m 38s
                                                   remaining: 1m 31s
                                  total: 1m 38s
518:
        learn: 0.2142009
                                                   remaining: 1m 31s
519:
                                  total: 1m 38s
        learn: 0.2141247
                                                   remaining: 1m 31s
520:
        learn: 0.2140336
                                  total: 1m 39s
                                                   remaining: 1m 31s
521:
        learn: 0.2139436
                                  total: 1m 39s
                                                   remaining: 1m 30s
522:
        learn: 0.2138520
                                  total: 1m 39s
                                                   remaining: 1m 30s
523:
        learn: 0.2137602
                                  total: 1m 39s
                                                   remaining: 1m 30s
524:
        learn: 0.2136817
                                  total: 1m 39s
                                                   remaining: 1m 30s
525:
        learn: 0.2135898
                                  total: 1m 40s
                                                   remaining: 1m 30s
526:
        learn: 0.2135077
                                  total: 1m 40s
                                                   remaining: 1m 30s
527:
        learn: 0.2134240
                                  total: 1m 40s
                                                   remaining: 1m 29s
528:
        learn: 0.2133482
                                  total: 1m 40s
                                                   remaining: 1m 29s
529:
        learn: 0.2132608
                                  total: 1m 40s
                                                   remaining: 1m 29s
```

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530:
                                  total: 1m 41s
                                                   remaining: 1m 29s
        learn: 0.2131662
                                                   remaining: 1m 29s
531:
        learn: 0.2130898
                                  total: 1m 41s
532:
                                  total: 1m 41s
                                                   remaining: 1m 28s
        learn: 0.2129980
                                  total: 1m 41s
                                                   remaining: 1m 28s
533:
        learn: 0.2129182
534:
        learn: 0.2128258
                                  total: 1m 41s
                                                   remaining: 1m 28s
535:
        learn: 0.2127441
                                  total: 1m 42s
                                                   remaining: 1m 28s
        learn: 0.2126637
                                  total: 1m 42s
                                                   remaining: 1m 28s
536:
537:
                                  total: 1m 42s
        learn: 0.2125782
                                                   remaining: 1m 28s
538:
        learn: 0.2124934
                                  total: 1m 42s
                                                   remaining: 1m 27s
539:
        learn: 0.2124093
                                  total: 1m 43s
                                                   remaining: 1m 27s
540:
        learn: 0.2123309
                                  total: 1m 43s
                                                   remaining: 1m 27s
                                  total: 1m 43s
541:
        learn: 0.2122440
                                                   remaining: 1m 27s
542:
        learn: 0.2121697
                                  total: 1m 43s
                                                   remaining: 1m 27s
543:
                                  total: 1m 43s
        learn: 0.2120846
                                                   remaining: 1m 27s
                                  total: 1m 44s
                                                   remaining: 1m 26s
544:
        learn: 0.2119916
545:
        learn: 0.2119074
                                  total: 1m 44s
                                                   remaining: 1m 26s
546:
        learn: 0.2118177
                                  total: 1m 44s
                                                   remaining: 1m 26s
547:
        learn: 0.2117328
                                  total: 1m 44s
                                                   remaining: 1m 26s
                                  total: 1m 44s
548:
        learn: 0.2116502
                                                   remaining: 1m 26s
549:
        learn: 0.2115776
                                  total: 1m 44s
                                                   remaining: 1m 25s
550:
        learn: 0.2115057
                                  total: 1m 45s
                                                   remaining: 1m 25s
                                  total: 1m 45s
551:
        learn: 0.2114226
                                                   remaining: 1m 25s
552:
        learn: 0.2113424
                                  total: 1m 45s
                                                   remaining: 1m 25s
553:
        learn: 0.2112676
                                  total: 1m 45s
                                                   remaining: 1m 25s
554:
                                  total: 1m 45s
        learn: 0.2111788
                                                   remaining: 1m 24s
                                  total: 1m 46s
555:
        learn: 0.2110876
                                                   remaining: 1m 24s
556:
        learn: 0.2109940
                                  total: 1m 46s
                                                   remaining: 1m 24s
557:
                                  total: 1m 46s
        learn: 0.2109140
                                                   remaining: 1m 24s
558:
        learn: 0.2108263
                                  total: 1m 46s
                                                   remaining: 1m 24s
559:
        learn: 0.2107407
                                  total: 1m 46s
                                                   remaining: 1m 23s
560:
        learn: 0.2106549
                                  total: 1m 47s
                                                   remaining: 1m 23s
561:
        learn: 0.2105733
                                  total: 1m 47s
                                                   remaining: 1m 23s
562:
        learn: 0.2104858
                                  total: 1m 47s
                                                   remaining: 1m 23s
563:
        learn: 0.2104117
                                  total: 1m 47s
                                                   remaining: 1m 23s
564:
        learn: 0.2103297
                                  total: 1m 47s
                                                   remaining: 1m 23s
                                  total: 1m 48s
565:
        learn: 0.2102557
                                                   remaining: 1m 22s
                                  total: 1m 48s
566:
        learn: 0.2101781
                                                   remaining: 1m 22s
                                  total: 1m 48s
567:
        learn: 0.2101063
                                                   remaining: 1m 22s
                                  total: 1m 48s
568:
        learn: 0.2100344
                                                   remaining: 1m 22s
569:
                                  total: 1m 48s
                                                   remaining: 1m 22s
        learn: 0.2099703
570:
                                  total: 1m 48s
                                                   remaining: 1m 21s
        learn: 0.2098838
571:
        learn: 0.2098013
                                  total: 1m 49s
                                                   remaining: 1m 21s
572:
        learn: 0.2097304
                                  total: 1m 49s
                                                   remaining: 1m 21s
573:
        learn: 0.2096385
                                  total: 1m 49s
                                                   remaining: 1m 21s
        learn: 0.2095573
                                                   remaining: 1m 21s
574:
                                  total: 1m 49s
575:
        learn: 0.2094702
                                  total: 1m 49s
                                                   remaining: 1m 20s
576:
        learn: 0.2093951
                                  total: 1m 50s
                                                   remaining: 1m 20s
                                  total: 1m 50s
577:
        learn: 0.2093209
                                                   remaining: 1m 20s
                                  total: 1m 50s
578:
        learn: 0.2092427
                                                   remaining: 1m 20s
579:
                                  total: 1m 50s
        learn: 0.2091662
                                                   remaining: 1m 20s
580:
        learn: 0.2090903
                                  total: 1m 50s
                                                   remaining: 1m 19s
581:
        learn: 0.2090103
                                  total: 1m 51s
                                                   remaining: 1m 19s
582:
        learn: 0.2089316
                                  total: 1m 51s
                                                   remaining: 1m 19s
583:
        learn: 0.2088430
                                  total: 1m 51s
                                                   remaining: 1m 19s
584:
        learn: 0.2087552
                                  total: 1m 51s
                                                   remaining: 1m 19s
                                  total: 1m 51s
585:
        learn: 0.2086754
                                                   remaining: 1m 19s
586:
        learn: 0.2085851
                                  total: 1m 52s
                                                   remaining: 1m 18s
587:
        learn: 0.2085070
                                  total: 1m 52s
                                                   remaining: 1m 18s
588:
        learn: 0.2084288
                                  total: 1m 52s
                                                   remaining: 1m 18s
```

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589:
                                  total: 1m 52s
                                                   remaining: 1m 18s
        learn: 0.2083466
590:
        learn: 0.2082711
                                  total: 1m 52s
                                                   remaining: 1m 18s
591:
                                  total: 1m 53s
                                                   remaining: 1m 17s
        learn: 0.2081867
                                  total: 1m 53s
592:
        learn: 0.2081246
                                                   remaining: 1m 17s
593:
        learn: 0.2080490
                                  total: 1m 53s
                                                   remaining: 1m 17s
594:
        learn: 0.2079681
                                  total: 1m 53s
                                                   remaining: 1m 17s
595:
        learn: 0.2078857
                                  total: 1m 53s
                                                   remaining: 1m 17s
596:
                                  total: 1m 54s
        learn: 0.2078111
                                                   remaining: 1m 16s
597:
        learn: 0.2077325
                                  total: 1m 54s
                                                   remaining: 1m 16s
598:
        learn: 0.2076408
                                  total: 1m 54s
                                                   remaining: 1m 16s
599:
        learn: 0.2075711
                                  total: 1m 54s
                                                   remaining: 1m 16s
                                  total: 1m 54s
600:
        learn: 0.2074962
                                                   remaining: 1m 16s
601:
        learn: 0.2074286
                                  total: 1m 55s
                                                   remaining: 1m 16s
602:
                                  total: 1m 55s
        learn: 0.2073522
                                                   remaining: 1m 15s
                                  total: 1m 55s
                                                   remaining: 1m 15s
603:
        learn: 0.2072879
                                  total: 1m 55s
604:
        learn: 0.2072099
                                                   remaining: 1m 15s
                                  total: 1m 55s
605:
        learn: 0.2071388
                                                   remaining: 1m 15s
606:
        learn: 0.2070603
                                  total: 1m 55s
                                                   remaining: 1m 15s
        learn: 0.2069709
                                  total: 1m 56s
607:
                                                   remaining: 1m 14s
608:
        learn: 0.2068913
                                  total: 1m 56s
                                                   remaining: 1m 14s
609:
        learn: 0.2068032
                                  total: 1m 56s
                                                   remaining: 1m 14s
                                  total: 1m 56s
610:
        learn: 0.2067297
                                                   remaining: 1m 14s
                                  total: 1m 56s
611:
        learn: 0.2066557
                                                   remaining: 1m 14s
612:
        learn: 0.2065823
                                  total: 1m 57s
                                                   remaining: 1m 13s
613:
                                  total: 1m 57s
        learn: 0.2065030
                                                   remaining: 1m 13s
                                  total: 1m 57s
614:
        learn: 0.2064214
                                                   remaining: 1m 13s
615:
        learn: 0.2063548
                                  total: 1m 57s
                                                   remaining: 1m 13s
                                  total: 1m 57s
616:
        learn: 0.2062837
                                                   remaining: 1m 13s
617:
        learn: 0.2062121
                                  total: 1m 58s
                                                   remaining: 1m 13s
618:
        learn: 0.2061288
                                  total: 1m 58s
                                                   remaining: 1m 12s
619:
        learn: 0.2060550
                                  total: 1m 58s
                                                   remaining: 1m 12s
620:
        learn: 0.2059822
                                  total: 1m 58s
                                                   remaining: 1m 12s
621:
        learn: 0.2059108
                                  total: 1m 59s
                                                   remaining: 1m 12s
622:
        learn: 0.2058366
                                  total: 1m 59s
                                                   remaining: 1m 12s
623:
        learn: 0.2057702
                                  total: 1m 59s
                                                   remaining: 1m 12s
624:
                                  total: 1m 59s
        learn: 0.2056911
                                                   remaining: 1m 11s
625:
                                  total: 1m 59s
        learn: 0.2056321
                                                   remaining: 1m 11s
626:
                                  total: 2m
        learn: 0.2055616
                                                   remaining: 1m 11s
627:
        learn: 0.2054893
                                  total: 2m
                                                   remaining: 1m 11s
628:
                                  total: 2m
                                                   remaining: 1m 11s
        learn: 0.2054101
629:
        learn: 0.2053391
                                  total: 2m
                                                   remaining: 1m 10s
630:
        learn: 0.2052698
                                  total: 2m
                                                   remaining: 1m 10s
631:
        learn: 0.2051930
                                  total: 2m 1s
                                                   remaining: 1m 10s
632:
        learn: 0.2051255
                                  total: 2m 1s
                                                   remaining: 1m 10s
                                  total: 2m 1s
                                                   remaining: 1m 10s
633:
        learn: 0.2050611
634:
        learn: 0.2049891
                                  total: 2m 1s
                                                   remaining: 1m 9s
635:
        learn: 0.2049226
                                  total: 2m 1s
                                                   remaining: 1m 9s
                                  total: 2m 1s
636:
        learn: 0.2048513
                                                   remaining: 1m 9s
                                  total: 2m 2s
637:
        learn: 0.2047870
                                                   remaining: 1m 9s
        learn: 0.2047090
                                  total: 2m 2s
638:
                                                   remaining: 1m 9s
639:
        learn: 0.2046388
                                  total: 2m 2s
                                                   remaining: 1m 8s
640:
        learn: 0.2045620
                                  total: 2m 2s
                                                   remaining: 1m 8s
641:
        learn: 0.2044821
                                  total: 2m 2s
                                                   remaining: 1m 8s
642:
        learn: 0.2044157
                                  total: 2m 3s
                                                   remaining: 1m 8s
643:
        learn: 0.2043453
                                  total: 2m 3s
                                                   remaining: 1m 8s
644:
        learn: 0.2042663
                                  total: 2m 3s
                                                   remaining: 1m 8s
645:
        learn: 0.2041970
                                  total: 2m 3s
                                                   remaining: 1m 7s
646:
        learn: 0.2041264
                                  total: 2m 3s
                                                   remaining: 1m 7s
                                  total: 2m 4s
647:
        learn: 0.2040458
                                                   remaining: 1m 7s
```

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648:
                                  total: 2m 4s
                                                   remaining: 1m 7s
        learn: 0.2039788
649:
        learn: 0.2039095
                                  total: 2m 4s
                                                   remaining: 1m 7s
650:
                                  total: 2m 4s
                                                   remaining: 1m 6s
        learn: 0.2038277
                                  total: 2m 4s
                                                   remaining: 1m 6s
651:
        learn: 0.2037656
652:
        learn: 0.2036994
                                  total: 2m 5s
                                                   remaining: 1m 6s
653:
        learn: 0.2036311
                                  total: 2m 5s
                                                   remaining: 1m 6s
                                                   remaining: 1m 6s
654:
        learn: 0.2035579
                                  total: 2m 5s
                                  total: 2m 5s
                                                   remaining: 1m 5s
655:
        learn: 0.2034916
656:
        learn: 0.2034195
                                  total: 2m 5s
                                                   remaining: 1m 5s
657:
        learn: 0.2033529
                                  total: 2m 5s
                                                   remaining: 1m 5s
658:
        learn: 0.2032859
                                  total: 2m 6s
                                                   remaining: 1m 5s
659:
        learn: 0.2032076
                                  total: 2m 6s
                                                   remaining: 1m 5s
660:
        learn: 0.2031430
                                  total: 2m 6s
                                                   remaining: 1m 4s
                                  total: 2m 6s
661:
        learn: 0.2030714
                                                   remaining: 1m 4s
                                  total: 2m 6s
662:
        learn: 0.2030055
                                                   remaining: 1m 4s
                                  total: 2m 7s
663:
        learn: 0.2029274
                                                   remaining: 1m 4s
664:
        learn: 0.2028538
                                  total: 2m 7s
                                                   remaining: 1m 4s
665:
        learn: 0.2027886
                                  total: 2m 7s
                                                   remaining: 1m 3s
        learn: 0.2027194
                                  total: 2m 7s
666:
                                                   remaining: 1m 3s
667:
        learn: 0.2026586
                                  total: 2m 7s
                                                   remaining: 1m 3s
668:
        learn: 0.2025834
                                  total: 2m 8s
                                                   remaining: 1m 3s
                                  total: 2m 8s
669:
        learn: 0.2025106
                                                   remaining: 1m 3s
                                  total: 2m 8s
670:
        learn: 0.2024473
                                                   remaining: 1m 2s
671:
        learn: 0.2023803
                                  total: 2m 8s
                                                   remaining: 1m 2s
672:
                                  total: 2m 8s
        learn: 0.2023112
                                                   remaining: 1m 2s
                                  total: 2m 9s
673:
        learn: 0.2022412
                                                   remaining: 1m 2s
674:
        learn: 0.2021839
                                  total: 2m 9s
                                                   remaining: 1m 2s
675:
                                  total: 2m 9s
        learn: 0.2021136
                                                   remaining: 1m 1s
676:
        learn: 0.2020486
                                  total: 2m 9s
                                                   remaining: 1m 1s
677:
        learn: 0.2019763
                                  total: 2m 9s
                                                   remaining: 1m 1s
678:
        learn: 0.2018998
                                  total: 2m 9s
                                                   remaining: 1m 1s
679:
        learn: 0.2018325
                                  total: 2m 10s
                                                   remaining: 1m 1s
                                  total: 2m 10s
680:
        learn: 0.2017697
                                                   remaining: 1m 1s
681:
        learn: 0.2017020
                                  total: 2m 10s
                                                   remaining: 1m
                                  total: 2m 10s
682:
        learn: 0.2016347
                                                   remaining: 1m
                                  total: 2m 10s
683:
        learn: 0.2015702
                                                   remaining: 1m
                                  total: 2m 11s
684:
        learn: 0.2014872
                                                   remaining: 1m
685:
                                  total: 2m 11s
        learn: 0.2014231
                                                   remaining: 1m
                                  total: 2m 11s
                                                   remaining: 59.9s
686:
        learn: 0.2013595
        learn: 0.2012822
                                  total: 2m 11s
687:
                                                   remaining: 59.7s
688:
        learn: 0.2012245
                                  total: 2m 11s
                                                   remaining: 59.5s
689:
        learn: 0.2011553
                                  total: 2m 12s
                                                   remaining: 59.3s
690:
        learn: 0.2010759
                                  total: 2m 12s
                                                   remaining: 59.1s
                                                   remaining: 58.9s
691:
        learn: 0.2010135
                                  total: 2m 12s
692:
        learn: 0.2009571
                                  total: 2m 12s
                                                   remaining: 58.8s
693:
        learn: 0.2008876
                                  total: 2m 12s
                                                   remaining: 58.6s
694:
        learn: 0.2008176
                                  total: 2m 13s
                                                   remaining: 58.4s
                                  total: 2m 13s
695:
        learn: 0.2007396
                                                   remaining: 58.2s
696:
                                  total: 2m 13s
                                                   remaining: 58s
        learn: 0.2006794
        learn: 0.2006019
697:
                                  total: 2m 13s
                                                   remaining: 57.8s
                                                   remaining: 57.6s
698:
        learn: 0.2005302
                                  total: 2m 13s
699:
        learn: 0.2004585
                                  total: 2m 14s
                                                   remaining: 57.4s
700:
        learn: 0.2003913
                                  total: 2m 14s
                                                   remaining: 57.3s
701:
        learn: 0.2003096
                                  total: 2m 14s
                                                   remaining: 57.1s
702:
        learn: 0.2002424
                                  total: 2m 14s
                                                   remaining: 56.9s
                                  total: 2m 15s
703:
        learn: 0.2001579
                                                   remaining: 56.8s
704:
        learn: 0.2000872
                                  total: 2m 15s
                                                   remaining: 56.6s
705:
        learn: 0.2000241
                                  total: 2m 15s
                                                   remaining: 56.4s
                                  total: 2m 15s
706:
        learn: 0.1999515
                                                   remaining: 56.2s
```

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707:
                                 total: 2m 15s
                                                   remaining: 56s
        learn: 0.1998767
708:
        learn: 0.1998033
                                 total: 2m 16s
                                                   remaining: 55.8s
709:
                                 total: 2m 16s
                                                   remaining: 55.6s
        learn: 0.1997471
710:
                                 total: 2m 16s
        learn: 0.1996898
                                                   remaining: 55.4s
711:
        learn: 0.1996236
                                 total: 2m 16s
                                                   remaining: 55.3s
712:
        learn: 0.1995508
                                 total: 2m 16s
                                                   remaining: 55.1s
713:
        learn: 0.1994907
                                 total: 2m 16s
                                                   remaining: 54.9s
714:
                                 total: 2m 17s
        learn: 0.1994257
                                                   remaining: 54.7s
715:
        learn: 0.1993601
                                 total: 2m 17s
                                                   remaining: 54.5s
716:
        learn: 0.1992879
                                 total: 2m 17s
                                                   remaining: 54.3s
717:
        learn: 0.1992236
                                 total: 2m 17s
                                                   remaining: 54.1s
718:
                                 total: 2m 17s
        learn: 0.1991677
                                                   remaining: 53.9s
719:
        learn: 0.1991027
                                 total: 2m 18s
                                                   remaining: 53.7s
720:
                                 total: 2m 18s
        learn: 0.1990343
                                                   remaining: 53.5s
721:
                                 total: 2m 18s
        learn: 0.1989634
                                                   remaining: 53.3s
722:
                                 total: 2m 18s
        learn: 0.1988929
                                                   remaining: 53.1s
723:
                                 total: 2m 18s
        learn: 0.1988293
                                                   remaining: 52.9s
                                                   remaining: 52.7s
724:
        learn: 0.1987555
                                 total: 2m 19s
725:
        learn: 0.1986965
                                 total: 2m 19s
                                                   remaining: 52.5s
726:
        learn: 0.1986354
                                 total: 2m 19s
                                                   remaining: 52.4s
727:
        learn: 0.1985694
                                 total: 2m 19s
                                                   remaining: 52.2s
                                 total: 2m 19s
728:
        learn: 0.1985031
                                                   remaining: 52s
729:
        learn: 0.1984306
                                 total: 2m 20s
                                                   remaining: 51.8s
730:
                                 total: 2m 20s
        learn: 0.1983713
                                                   remaining: 51.6s
731:
                                 total: 2m 20s
        learn: 0.1983044
                                                   remaining: 51.4s
732:
                                 total: 2m 20s
        learn: 0.1982373
                                                   remaining: 51.2s
733:
        learn: 0.1981711
                                 total: 2m 20s
                                                   remaining: 51s
734:
                                 total: 2m 20s
        learn: 0.1981121
                                                   remaining: 50.8s
735:
        learn: 0.1980527
                                 total: 2m 21s
                                                   remaining: 50.6s
736:
        learn: 0.1979794
                                 total: 2m 21s
                                                   remaining: 50.4s
737:
        learn: 0.1979122
                                 total: 2m 21s
                                                   remaining: 50.3s
738:
        learn: 0.1978497
                                 total: 2m 21s
                                                   remaining: 50.1s
                                 total: 2m 21s
739:
        learn: 0.1977836
                                                   remaining: 49.9s
740:
        learn: 0.1977212
                                 total: 2m 22s
                                                   remaining: 49.7s
741:
        learn: 0.1976552
                                 total: 2m 22s
                                                   remaining: 49.5s
742:
                                 total: 2m 22s
        learn: 0.1975816
                                                   remaining: 49.3s
743:
        learn: 0.1975294
                                 total: 2m 22s
                                                   remaining: 49.1s
744:
                                 total: 2m 22s
        learn: 0.1974589
                                                   remaining: 48.9s
                                 total: 2m 23s
                                                   remaining: 48.7s
745:
        learn: 0.1973940
746:
        learn: 0.1973381
                                 total: 2m 23s
                                                   remaining: 48.5s
747:
        learn: 0.1972675
                                 total: 2m 23s
                                                   remaining: 48.4s
748:
        learn: 0.1971938
                                 total: 2m 23s
                                                   remaining: 48.2s
                                                   remaining: 48s
749:
        learn: 0.1971278
                                 total: 2m 23s
                                                   remaining: 47.8s
750:
        learn: 0.1970619
                                 total: 2m 24s
        learn: 0.1969962
751:
                                 total: 2m 24s
                                                   remaining: 47.6s
752:
        learn: 0.1969360
                                 total: 2m 24s
                                                   remaining: 47.4s
753:
        learn: 0.1968660
                                 total: 2m 24s
                                                   remaining: 47.2s
                                 total: 2m 24s
754:
        learn: 0.1968026
                                                   remaining: 47s
755:
                                 total: 2m 25s
        learn: 0.1967385
                                                   remaining: 46.9s
756:
                                 total: 2m 25s
        learn: 0.1966807
                                                   remaining: 46.7s
757:
                                 total: 2m 25s
        learn: 0.1966165
                                                   remaining: 46.5s
758:
        learn: 0.1965457
                                 total: 2m 25s
                                                   remaining: 46.3s
759:
        learn: 0.1964792
                                 total: 2m 25s
                                                   remaining: 46.1s
760:
                                 total: 2m 26s
        learn: 0.1964043
                                                   remaining: 45.9s
761:
        learn: 0.1963277
                                 total: 2m 26s
                                                   remaining: 45.7s
762:
        learn: 0.1962662
                                 total: 2m 26s
                                                   remaining: 45.5s
763:
        learn: 0.1962081
                                 total: 2m 26s
                                                   remaining: 45.3s
764:
        learn: 0.1961483
                                 total: 2m 26s
                                                   remaining: 45.1s
765:
        learn: 0.1960921
                                 total: 2m 27s
                                                   remaining: 44.9s
```

766:	learn: 0.1960280	total: 2m 27s	remaining:	44.8s
767:	learn: 0.1959640	total: 2m 27s	remaining:	
768:	learn: 0.1958881	total: 2m 27s	remaining:	
769:	learn: 0.1958235	total: 2m 27s	remaining:	
770:	learn: 0.1957674	total: 2m 28s	remaining:	
771:	learn: 0.1957213	total: 2m 28s	remaining:	
772:	learn: 0.1956455	total: 2m 28s	remaining:	
773:	learn: 0.1955890	total: 2m 28s	remaining:	
774:	learn: 0.1955220	total: 2m 28s	remaining:	
775:	learn: 0.1954535	total: 2m 29s	remaining:	
776:	learn: 0.1953971	total: 2m 29s	remaining:	
777:	learn: 0.1953409	total: 2m 29s	remaining:	
778:	learn: 0.1952828	total: 2m 29s	remaining:	
779:	learn: 0.1952195	total: 2m 29s	remaining:	
780:	learn: 0.1951557	total: 2m 30s	remaining:	
781:	learn: 0.1950888	total: 2m 30s	remaining:	
782:	learn: 0.1950227	total: 2m 30s	remaining:	
783:	learn: 0.1949602	total: 2m 30s	remaining:	
783: 784:	learn: 0.1949032	total: 2m 31s	remaining:	
784: 785:	learn: 0.1948331	total: 2m 31s	remaining:	
785: 786:	learn: 0.1947745	total: 2m 31s	remaining:	
780. 787:	learn: 0.1947743	total: 2m 31s	remaining:	
787: 788:	learn: 0.1947147	total: 2m 31s	remaining:	
788:	learn: 0.1945868	total: 2m 32s	remaining:	
789. 790:	learn: 0.1945261	total: 2m 32s	•	
790. 791:	learn: 0.1944723	total: 2m 32s	<pre>remaining: remaining:</pre>	
791. 792:	learn: 0.1944041	total: 2m 32s	remaining.	
792. 793:	learn: 0.1943513	total: 2m 32s	remaining.	
793. 794:	learn: 0.1943919	total: 2m 33s	remaining:	
794. 795:	learn: 0.1942919	total: 2m 33s	remaining:	
795: 796:	learn: 0.1942251	total: 2m 33s	remaining:	
790. 797:	learn: 0.194107	total: 2m 33s	remaining:	38.95
797: 798:	learn: 0.1941107	total: 2m 33s	remaining:	
798:	learn: 0.1939933	total: 2m 34s	remaining:	
800:	learn: 0.1939333	total: 2m 34s	remaining:	
801:	learn: 0.1938647	total: 2m 34s	remaining:	38.25
802:	learn: 0.1937968	total: 2m 34s	remaining:	38s
803:	learn: 0.1937371	total: 2m 34s	remaining:	
804:	learn: 0.1936839	total: 2m 35s	remaining:	
805:	learn: 0.1936224	total: 2m 35s	remaining:	
806:	learn: 0.1935655	total: 2m 35s	remaining:	37.43 37.2s
807:	learn: 0.1935050	total: 2m 35s	remaining:	
808:	learn: 0.1934451	total: 2m 35s	remaining:	
809:	learn: 0.1933876	total: 2m 36s	remaining:	
810:	learn: 0.1933409	total: 2m 36s	remaining:	
810. 811:	learn: 0.1932829	total: 2m 36s	remaining:	36.25
812:	learn: 0.1932198	total: 2m 36s	remaining:	
812:	learn: 0.1931601	total: 2m 36s	remaining:	
813. 814:	learn: 0.1931091	total: 2m 37s	remaining.	
814: 815:	learn: 0.1930520	total: 2m 37s	remaining:	
815. 816:	learn: 0.1929965	total: 2m 37s	remaining:	35.3s
810. 817:	learn: 0.1929415	total: 2m 37s	remaining:	
817. 818:	learn: 0.1928691	total: 2m 37s	remaining.	
819:	learn: 0.1928074	total: 2m 38s	remaining.	
819. 820:	learn: 0.1927565	total: 2m 38s	remaining.	
	learn: 0.1926954		•	
821: 822:	learn: 0.1926297	total: 2m 38s total: 2m 38s	remaining:	34.3s
822: 823:	learn: 0.1925649	total: 2m 38s	<pre>remaining: remaining:</pre>	
823: 824:	learn: 0.1925060	total: 2m 38s	remaining: remaining:	
024.	TEGI 11. 0.1323000	COCAI. ZIII 395	i ciliatiitiik:	٥١.در

```
825:
                                  total: 2m 39s
                                                   remaining: 33.5s
        learn: 0.1924463
826:
        learn: 0.1923843
                                  total: 2m 39s
                                                   remaining: 33.4s
827:
                                  total: 2m 39s
                                                   remaining: 33.2s
        learn: 0.1923215
                                  total: 2m 39s
828:
        learn: 0.1922634
                                                   remaining: 33s
829:
        learn: 0.1922030
                                  total: 2m 40s
                                                   remaining: 32.8s
830:
        learn: 0.1921474
                                  total: 2m 40s
                                                   remaining: 32.6s
                                                   remaining: 32.4s
831:
        learn: 0.1920796
                                  total: 2m 40s
                                  total: 2m 40s
832:
        learn: 0.1920213
                                                   remaining: 32.2s
833:
        learn: 0.1919628
                                  total: 2m 40s
                                                   remaining: 32s
834:
        learn: 0.1919105
                                  total: 2m 41s
                                                   remaining: 31.8s
835:
        learn: 0.1918583
                                  total: 2m 41s
                                                   remaining: 31.6s
836:
        learn: 0.1917949
                                  total: 2m 41s
                                                   remaining: 31.4s
837:
        learn: 0.1917409
                                  total: 2m 41s
                                                   remaining: 31.2s
                                  total: 2m 41s
838:
        learn: 0.1916807
                                                   remaining: 31.1s
                                  total: 2m 42s
839:
        learn: 0.1916230
                                                   remaining: 30.9s
                                  total: 2m 42s
840:
        learn: 0.1915703
                                                   remaining: 30.7s
841:
        learn: 0.1915157
                                  total: 2m 42s
                                                   remaining: 30.5s
                                                   remaining: 30.3s
842:
        learn: 0.1914548
                                  total: 2m 42s
                                  total: 2m 42s
843:
        learn: 0.1913966
                                                   remaining: 30.1s
844:
        learn: 0.1913309
                                  total: 2m 43s
                                                   remaining: 29.9s
845:
        learn: 0.1912659
                                  total: 2m 43s
                                                   remaining: 29.7s
                                                   remaining: 29.5s
846:
        learn: 0.1912018
                                  total: 2m 43s
                                  total: 2m 43s
                                                   remaining: 29.3s
847:
        learn: 0.1911490
848:
        learn: 0.1910887
                                  total: 2m 43s
                                                   remaining: 29.1s
849:
                                  total: 2m 44s
        learn: 0.1910182
                                                   remaining: 28.9s
                                  total: 2m 44s
850:
        learn: 0.1909529
                                                   remaining: 28.8s
851:
        learn: 0.1909018
                                  total: 2m 44s
                                                   remaining: 28.6s
852:
                                  total: 2m 44s
        learn: 0.1908469
                                                   remaining: 28.4s
853:
        learn: 0.1907869
                                  total: 2m 44s
                                                   remaining: 28.2s
                                                   remaining: 28s
854:
        learn: 0.1907339
                                  total: 2m 45s
855:
        learn: 0.1906759
                                  total: 2m 45s
                                                   remaining: 27.8s
856:
        learn: 0.1906158
                                  total: 2m 45s
                                                   remaining: 27.6s
857:
        learn: 0.1905567
                                  total: 2m 45s
                                                   remaining: 27.4s
858:
        learn: 0.1905055
                                  total: 2m 45s
                                                   remaining: 27.2s
859:
        learn: 0.1904574
                                  total: 2m 46s
                                                   remaining: 27s
                                  total: 2m 46s
                                                   remaining: 26.8s
860:
        learn: 0.1903927
                                  total: 2m 46s
861:
        learn: 0.1903223
                                                   remaining: 26.7s
                                  total: 2m 46s
862:
        learn: 0.1902566
                                                   remaining: 26.5s
                                  total: 2m 47s
863:
        learn: 0.1901868
                                                   remaining: 26.3s
                                  total: 2m 47s
864:
        learn: 0.1901302
                                                   remaining: 26.1s
                                  total: 2m 47s
865:
        learn: 0.1900672
                                                   remaining: 25.9s
866:
        learn: 0.1900070
                                  total: 2m 47s
                                                   remaining: 25.7s
867:
        learn: 0.1899390
                                  total: 2m 47s
                                                   remaining: 25.5s
                                                   remaining: 25.3s
868:
        learn: 0.1898718
                                  total: 2m 48s
869:
                                  total: 2m 48s
        learn: 0.1898069
                                                   remaining: 25.1s
870:
        learn: 0.1897494
                                  total: 2m 48s
                                                   remaining: 24.9s
871:
        learn: 0.1896884
                                  total: 2m 48s
                                                   remaining: 24.8s
                                  total: 2m 48s
872:
        learn: 0.1896334
                                                   remaining: 24.6s
873:
                                  total: 2m 49s
        learn: 0.1895765
                                                   remaining: 24.4s
874:
                                  total: 2m 49s
        learn: 0.1895175
                                                   remaining: 24.2s
875:
        learn: 0.1894641
                                  total: 2m 49s
                                                   remaining: 24s
876:
        learn: 0.1894130
                                  total: 2m 49s
                                                   remaining: 23.8s
877:
        learn: 0.1893559
                                  total: 2m 49s
                                                   remaining: 23.6s
                                  total: 2m 50s
878:
        learn: 0.1892945
                                                   remaining: 23.4s
879:
        learn: 0.1892356
                                  total: 2m 50s
                                                   remaining: 23.2s
                                  total: 2m 50s
880:
        learn: 0.1891798
                                                   remaining: 23s
881:
        learn: 0.1891229
                                  total: 2m 50s
                                                   remaining: 22.8s
882:
        learn: 0.1890659
                                  total: 2m 50s
                                                   remaining: 22.6s
                                  total: 2m 50s
883:
        learn: 0.1890145
                                                   remaining: 22.4s
```

884:	learn: 0.1889518	total: 2m 51s	remaining:	22.2s
885:	learn: 0.1888984	total: 2m 51s	remaining:	22.1s
886:	learn: 0.1888421	total: 2m 51s	remaining:	21.9s
887:	learn: 0.1887865	total: 2m 51s	remaining:	
888:	learn: 0.1887423	total: 2m 52s	remaining:	
889:	learn: 0.1886870	total: 2m 52s	remaining:	
890:	learn: 0.1886253	total: 2m 52s	remaining:	
891:	learn: 0.1885714	total: 2m 52s	remaining:	20.9s
892:	learn: 0.1885246	total: 2m 52s	remaining:	
893:	learn: 0.1884738	total: 2m 53s	remaining:	
894:	learn: 0.1884215	total: 2m 53s	remaining:	20.3s
895:	learn: 0.1883700	total: 2m 53s	remaining:	20.1s
896:	learn: 0.1883166	total: 2m 53s	remaining:	19.9s
897:	learn: 0.1882594	total: 2m 53s	remaining:	19.7s
898:	learn: 0.1882000	total: 2m 54s	remaining:	19.5s
899:	learn: 0.1881549	total: 2m 54s	remaining:	19.4s
900:	learn: 0.1881010	total: 2m 54s	remaining:	19.2s
901:	learn: 0.1880383	total: 2m 54s	remaining:	
902:	learn: 0.1879874	total: 2m 54s	remaining:	
903:	learn: 0.1879363	total: 2m 55s	remaining:	
904:	learn: 0.1878883	total: 2m 55s	remaining:	18.4s
905:	learn: 0.1878291	total: 2m 55s	remaining:	18.2s
906:	learn: 0.1877685	total: 2m 55s	remaining:	18s
907:	learn: 0.1877236	total: 2m 55s	remaining:	17.8s
908:	learn: 0.1876764	total: 2m 56s	remaining:	17.6s
909:	learn: 0.1876217	total: 2m 56s	remaining:	17.4s
910:	learn: 0.1875786	total: 2m 56s	remaining:	17.2s
911:	learn: 0.1875272	total: 2m 56s	remaining:	17s
912:	learn: 0.1874748	total: 2m 56s	remaining:	16.8s
913:	learn: 0.1874246	total: 2m 56s	remaining:	
914:	learn: 0.1873637	total: 2m 57s	remaining:	
915:	learn: 0.1873085	total: 2m 57s	remaining:	16.3s
916:	learn: 0.1872565	total: 2m 57s	remaining:	
917:	learn: 0.1871987	total: 2m 57s	remaining:	
918:	learn: 0.1871503	total: 2m 58s	remaining:	
919:	learn: 0.1870904	total: 2m 58s	remaining:	
920:	learn: 0.1870340	total: 2m 58s	remaining:	
921:	learn: 0.1869774	total: 2m 58s	remaining:	
922:	learn: 0.1869200	total: 2m 58s	remaining:	14.9s
923:	learn: 0.1868544	total: 2m 59s	remaining:	14.7s
924:	learn: 0.1868032	total: 2m 59s	remaining:	14.5s
925:	learn: 0.1867549	total: 2m 59s	remaining:	14.3s
926:	learn: 0.1866969	total: 2m 59s	remaining:	14.2s
927:	learn: 0.1866461	total: 2m 59s	remaining:	
928:	learn: 0.1865906	total: 3m	remaining:	
929:	learn: 0.1865438	total: 3m	remaining:	
930:	learn: 0.1864872	total: 3m	remaining:	
931:	learn: 0.1864376	total: 3m	remaining:	
			_	
932:	learn: 0.1863695	total: 3m	remaining:	
933:	learn: 0.1863259	total: 3m 1s	remaining:	
934:	learn: 0.1862789	total: 3m 1s	remaining:	
935:	learn: 0.1862312	total: 3m 1s	remaining:	
936:	learn: 0.1861802	total: 3m 1s	remaining:	12.2s
937:	learn: 0.1861328	total: 3m 2s	remaining:	
938:	learn: 0.1860779	total: 3m 2s	remaining:	11.8 s
939:	learn: 0.1860216	total: 3m 2s	remaining:	11. 7s
940:	learn: 0.1859613	total: 3m 2s	remaining:	11.5s
941:	learn: 0.1859004	total: 3m 3s	remaining:	
942:	learn: 0.1858435	total: 3m 3s	remaining:	
		: = ==		

```
943:
        learn: 0.1857911
                                  total: 3m 3s
                                                   remaining: 10.9s
944:
        learn: 0.1857489
                                  total: 3m 3s
                                                   remaining: 10.7s
945:
                                  total: 3m 3s
                                                   remaining: 10.5s
        learn: 0.1856955
946:
        learn: 0.1856497
                                  total: 3m 4s
                                                   remaining: 10.3s
947:
        learn: 0.1856000
                                  total: 3m 4s
                                                   remaining: 10.1s
948:
        learn: 0.1855379
                                  total: 3m 4s
                                                   remaining: 9.91s
                                                   remaining: 9.72s
949:
        learn: 0.1854778
                                  total: 3m 4s
950:
                                  total: 3m 4s
        learn: 0.1854278
                                                   remaining: 9.53s
951:
        learn: 0.1853733
                                  total: 3m 5s
                                                   remaining: 9.33s
952:
        learn: 0.1853279
                                  total: 3m 5s
                                                   remaining: 9.14s
953:
        learn: 0.1852753
                                  total: 3m 5s
                                                   remaining: 8.94s
954:
                                  total: 3m 5s
        learn: 0.1852197
                                                   remaining: 8.75s
955:
        learn: 0.1851719
                                  total: 3m 5s
                                                   remaining: 8.56s
956:
        learn: 0.1851181
                                  total: 3m 6s
                                                   remaining: 8.37s
957:
                                  total: 3m 6s
                                                   remaining: 8.17s
        learn: 0.1850724
958:
        learn: 0.1850289
                                  total: 3m 6s
                                                   remaining: 7.97s
959:
        learn: 0.1849886
                                  total: 3m 6s
                                                   remaining: 7.78s
                                                   remaining: 7.59s
960:
        learn: 0.1849373
                                  total: 3m 6s
                                  total: 3m 7s
961:
        learn: 0.1848827
                                                   remaining: 7.39s
962:
        learn: 0.1848268
                                  total: 3m 7s
                                                   remaining: 7.2s
963:
        learn: 0.1847747
                                  total: 3m 7s
                                                   remaining: 7s
964:
        learn: 0.1847290
                                  total: 3m 7s
                                                   remaining: 6.81s
965:
        learn: 0.1846774
                                  total: 3m 7s
                                                   remaining: 6.62s
966:
        learn: 0.1846242
                                  total: 3m 8s
                                                   remaining: 6.42s
967:
        learn: 0.1845740
                                  total: 3m 8s
                                                   remaining: 6.23s
                                  total: 3m 8s
                                                   remaining: 6.03s
968:
        learn: 0.1845202
969:
        learn: 0.1844720
                                  total: 3m 8s
                                                   remaining: 5.84s
970:
                                  total: 3m 8s
        learn: 0.1844224
                                                   remaining: 5.64s
971:
        learn: 0.1843830
                                  total: 3m 9s
                                                   remaining: 5.45s
972:
        learn: 0.1843237
                                  total: 3m 9s
                                                   remaining: 5.25s
973:
        learn: 0.1842758
                                  total: 3m 9s
                                                   remaining: 5.06s
974:
        learn: 0.1842307
                                  total: 3m 9s
                                                   remaining: 4.87s
975:
        learn: 0.1841836
                                  total: 3m 9s
                                                   remaining: 4.67s
976:
        learn: 0.1841262
                                  total: 3m 10s
                                                   remaining: 4.48s
977:
        learn: 0.1840794
                                  total: 3m 10s
                                                   remaining: 4.28s
978:
                                  total: 3m 10s
        learn: 0.1840161
                                                   remaining: 4.09s
979:
                                  total: 3m 10s
        learn: 0.1839646
                                                   remaining: 3.89s
980:
                                  total: 3m 10s
        learn: 0.1839123
                                                   remaining: 3.7s
                                                   remaining: 3.5s
981:
        learn: 0.1838598
                                  total: 3m 11s
982:
                                  total: 3m 11s
        learn: 0.1838134
                                                   remaining: 3.31s
983:
        learn: 0.1837648
                                  total: 3m 11s
                                                   remaining: 3.11s
984:
        learn: 0.1837165
                                  total: 3m 11s
                                                   remaining: 2.92s
985:
        learn: 0.1836641
                                  total: 3m 11s
                                                   remaining: 2.72s
                                                   remaining: 2.53s
986:
        learn: 0.1836054
                                  total: 3m 12s
987:
                                  total: 3m 12s
        learn: 0.1835469
                                                   remaining: 2.33s
988:
        learn: 0.1835099
                                  total: 3m 12s
                                                   remaining: 2.14s
989:
        learn: 0.1834733
                                  total: 3m 12s
                                                   remaining: 1.95s
990:
        learn: 0.1834198
                                  total: 3m 12s
                                                   remaining: 1.75s
991:
        learn: 0.1833723
                                  total: 3m 13s
                                                   remaining: 1.56s
992:
                                  total: 3m 13s
        learn: 0.1833306
                                                   remaining: 1.36s
                                                   remaining: 1.17s
993:
        learn: 0.1832713
                                  total: 3m 13s
994:
        learn: 0.1832210
                                  total: 3m 13s
                                                   remaining: 973ms
995:
        learn: 0.1831731
                                  total: 3m 13s
                                                   remaining: 778ms
996:
        learn: 0.1831233
                                  total: 3m 14s
                                                   remaining: 584ms
                                 total: 3m 14s
997:
        learn: 0.1830749
                                                   remaining: 389ms
998:
        learn: 0.1830263
                                 total: 3m 14s
                                                   remaining: 195ms
999:
        learn: 0.1829819
                                 total: 3m 14s
                                                   remaining: Ous
cat: {'train dataset': {'Accuracy': 0.9328, 'AUC': 0.9341}, 'validation
dataset': {'Accuracy': 0.9163, 'AUC': 0.8873}}
```

```
error score='raise-deprecating',
                 estimator=<catboost.core.CatBoostClassifier object at 0x000001
        DA08E833C8>,
                 fit_params=None, iid='warn', n_iter=5, n_jobs=None,
                 param distributions={'depth': [6, 7, 8, 9, 10], 'iterations':
        [250, 100, 500, 1000], 'learning_rate': [0.03, 0.001, 0.01, 0.1, 0.2, 0.
        3], 'l2_leaf_reg': [3, 1, 5, 10, 100], 'border_count': [32, 5, 10, 20, 5
        0, 100], 'ctr border count': [50, 5, 10, 20, 100, 200]},
                 pre_dispatch='2*n_jobs', random_state=123, refit=True,
                 return train score='warn', scoring='roc auc', verbose=3)
In [4]:
       from prettytable import PrettyTable
        x = PrettyTable()
        x.field_names = ["sl.no", "model", "Accuracy", "AUC"]
        x.add_row(["1", "XGBClassifieR", 0.917, 0.991])
        x.add_row(["2", "LGBMClassifier", 0.846, 0.891])
        x.add_row(["3","CatBoostClassifier", 0.916, 0.887])
        print(x)
        +----+
```

| sl.no | model | Accuracy | AUC |

1 | XGBClassifieR | 0.917 | 0.991 | 2 | LGBMClassifier | 0.846 | 0.891 |

3 | CatBoostClassifier | 0.916 | 0.887 |

cat: RandomizedSearchCV(cv=<generator object BaseKFold.split at 0x00000

In [66]: | print(f"cat: {cat[0]}")

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