

????

July 26, 2019

```
[2]: import numpy as np
import pandas as pd
import seaborn as sns
import matplotlib.pyplot as plt
import xgboost as xgb
from time import time
```

1

```
[3]: #
train = pd.read_csv('train.csv', parse_dates=[2])
test = pd.read_csv('test.csv', parse_dates=[3])
store = pd.read_csv('store.csv')
```

```
/usr/local/miniconda3/lib/python3.7/site-
packages/IPython/core/interactiveshell.py:3049: DtypeWarning: Columns (7) have
mixed types. Specify dtype option on import or set low_memory=False.
interactivity=interactivity, compiler=compiler, result=result)
```

2 ,

```
[4]: #train.head().append(train.tail())
```

```
[5]: #test.head().append(test.tail())
```

```
[6]: #store.head().append(store.tail())
```

3

```
[7]: display(train.isnull().sum(),
            test.isnull().sum(),
            store.isnull().sum())
```

Store 0

```

DayOfWeek      0
Date            0
Sales           0
Customers       0
Open           0
Promo           0
StateHoliday    0
SchoolHoliday   0
dtype: int64

```

```

Id              0
Store           0
DayOfWeek       0
Date            0
Open           11
Promo           0
StateHoliday    0
SchoolHoliday   0
dtype: int64

```

```

Store           0
StoreType       0
Assortment      0
CompetitionDistance  3
CompetitionOpenSinceMonth  354
CompetitionOpenSinceYear  354
Promo2          0
Promo2SinceWeek  544
Promo2SinceYear  544
PromoInterval    544
dtype: int64

```

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```
[8]: #test[pd.isnull(test.Open)]
```

```
[9]: #store[pd.isnull(store.CompetitionDistance)]
```

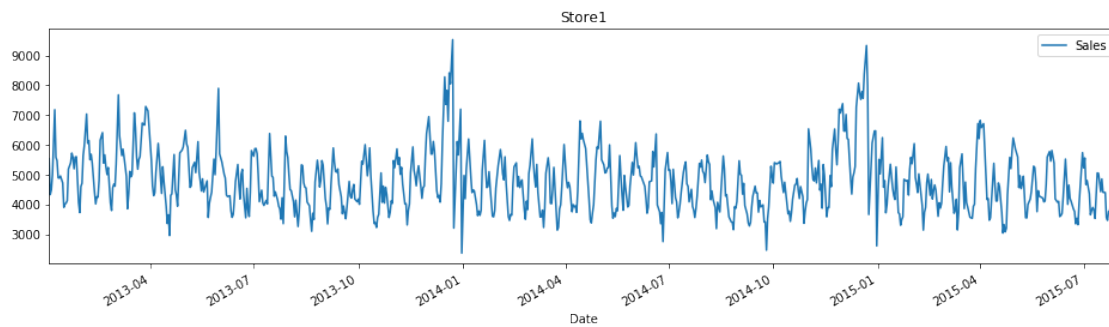
```
[10]: #store[pd.isnull(store.CompetitionOpenSinceMonth)].head(10)
```

```
[11]: #Promo2
NoPW = store[pd.isnull(store.Promo2SinceWeek)]
NoPW[NoPW.Promo2 != 0].shape
#0
#00
```

```
[11]: (0, 10)
```

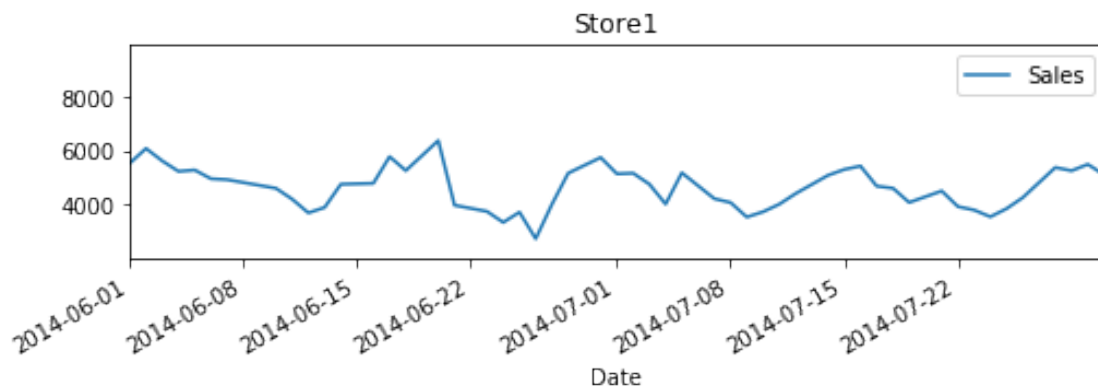
5 1

```
[12]: strain = train.loc[(train.Sales>0)&(train.Store==1)].plot(x='Date',  
                                                                y='Sales',  
                                                                title='Store1',  
                                                                figsize=(16, 4)  
                                                                )  
  
#1112
```



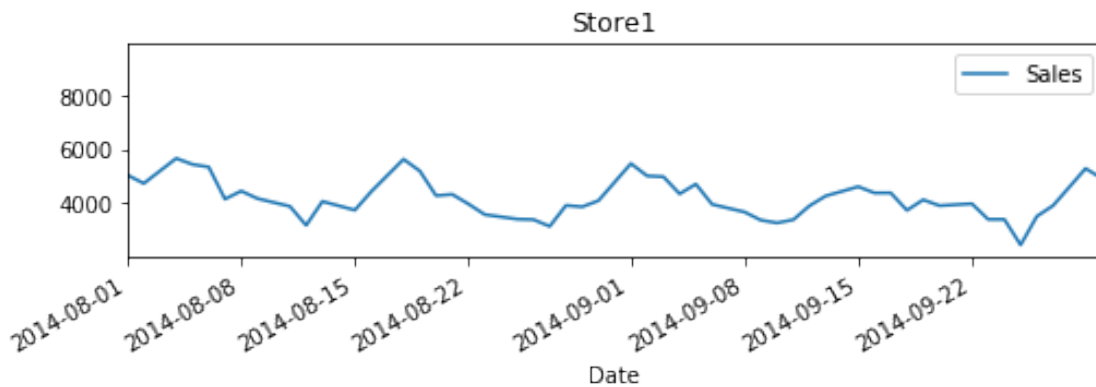
6 16-9

```
[13]: strain = train.loc[(train.Sales>0)&(train.Store==1),  
                        ['Date', 'Sales']].plot(x='Date',  
                                                y='Sales',  
                                                title='Store1',  
                                                figsize=(8, 2),  
                                                xlim=['2014-6-1',  
                                                        '2014-7-31'],  
                                                )
```



```
[14]: strain = train.loc[(train.Sales>0)&(train.Store==1), ['Date', 'Sales']].
      →plot(x='Date',
            y='Sales',
            title='Store1',
            figsize=(8, 2),
            xlim=['2014-8-1',
                  '2014-9-30']
            )

#
#6,789
#201589676
```



7

```
[15]: #
      #testOpen1
      test['Open'].fillna(1, inplace=True)
      #display(test.isnull().sum())

[16]: store.fillna(0, inplace=True)
      #display(store.isnull().sum())

[17]: #trainteststore
      train = pd.merge(train, store, on='Store')
      test = pd.merge(test, store, on='Store')

[18]: #111576hold_out
      train = train.sort_values(['Date'], ascending=False)
      ho_test = train[: 6*7*1115]
      ho_train = train[6*7*1115:]

[19]: #ho_train.dtypes

[20]: #ho_test.dtypes
```

```
[21]: #test.dtypes
```

```
[22]: #0>0
```

```
ho_test = ho_test[(ho_test['Open']!=0)&(ho_test['Sales']>0)]
ho_train = ho_test[(ho_test['Open']!=0)&(ho_test['Sales']>0)]
ho_train.head()
```

```
[22]:
```

	Store	DayOfWeek	Date	Sales	Customers	Open	Promo	\
0	1	5	2015-07-31	5263	555	1	1	
679364	747	5	2015-07-31	10708	826	1	1	
702362	772	5	2015-07-31	5224	635	1	1	
683890	752	5	2015-07-31	7763	565	1	1	
17714	20	5	2015-07-31	9593	974	1	1	

	StateHoliday	SchoolHoliday	StoreType	Assortment	CompetitionDistance	\
0	0	1	c	a	1270.0	
679364	0	1	c	c	45740.0	
702362	0	1	d	c	1850.0	
683890	0	1	a	a	970.0	
17714	0	0	d	a	2340.0	

	CompetitionOpenSinceMonth	CompetitionOpenSinceYear	Promo2	\
0	9.0	2008.0	0	
679364	8.0	2008.0	0	
702362	0.0	0.0	0	
683890	3.0	2013.0	1	
17714	5.0	2009.0	1	

	Promo2SinceWeek	Promo2SinceYear	PromoInterval
0	0.0	0.0	0
679364	0.0	0.0	0
702362	0.0	0.0	0
683890	31.0	2013.0	Feb,May,Aug,Nov
17714	40.0	2014.0	Jan,Apr,Jul,Oct

```
[23]: #ho_test.head()
```

```
[24]: #test.head()
```

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```
[25]: #
def features_create(data):
    #
    #mappings = {'0':0, 'a':1, 'b':2, 'c':3, 'd':4}
    data['Assortment'].replace({'a':1, 'b':2, 'c':3}, inplace=True)
    data['StoreType'].replace({'a':1, 'b':2, 'c':3, 'd':4}, inplace=True)
    data['StateHoliday'].replace({'0':0, 'a':1}, inplace=True)
```

```

# 'WeekOfYear'
data['Year'] = data.Date.dt.year
data['Month'] = data.Date.dt.month
data['Day'] = data.Date.dt.day
data['DayOfWeek'] = data.Date.dt.dayofweek
data['WeekOfYear'] = data.Date.dt.weekofyear

# 'CompetitionOpen' 'PromoOpen'
#
data['CompetitionOpen'] = 12*(data['Year']-data['CompetitionOpenSinceYear'])+(data['Month']-data['CompetitionOpenSinceYear'])/12
data['PromoOpen'] = 12*(data['Year']-data['Promo2SinceYear'])+(data['WeekOfYear']-data['Promo2SinceWeek'])/4.0
data['CompetitionOpen'] = data['CompetitionOpen'].apply(lambda x : x if x > 0 else 0)
data['PromoOpen'] = data['PromoOpen'].apply(lambda x : x if x > 0 else 0)

# 'PromoInterval' 'IsPromoMonth'
#, 10
month2str = {1:'Jan', 2:'Feb', 3:'Mar', 4:'Apr', 5:'May', 6:'Jun',
              7:'Jul', 8:'Aug', 9:'Sept', 10:'Oct', 11:'Nov', 12:'Dec'}
data['monthStr'] = data['Month'].map(month2str)
data.loc[data['PromoInterval']==0, 'PromoInterval'] = ''
for interval in data['PromoInterval'].unique():
    if interval != '':
        for month in interval.split(','):
            data.loc[data['monthStr']==month, 'IsPromoMonth'] = 1
return data

```

```

[26]: #ho_train, ho_testtest
features_create(ho_train)
features_create(ho_test)
features_create(test)
print('Feature creation finished')

```

Feature creation finished

```
[27]: #ho_train.dtypes
```

```
[28]: #ho_test.dtypes
```

```
[29]: #test.dtypes
```

```

[30]: #
ho_train.drop(['Date', 'Customers', 'Open', 'PromoInterval', 'monthStr'],
              axis=1, inplace=True)

```

```
ho_test.drop(['Date', 'Customers', 'Open', 'PromoInterval', 'monthStr'],
             axis=1, inplace=True)
```

```
[31]: #Sales
      #plt.subplots(figsize=(24,20))
      #sns.heatmap(ho_train.corr(), annot=True,
                  #vmin=-0.1, vmax=0.1, center=0)
```

```
[32]: #,
      ho_xtrain = ho_train.drop(['Sales'], axis=1)
      ho_ytrain = np.log1p(ho_train.Sales)

      ho_xtest = ho_test.drop(['Sales'], axis=1)
      ho_ytest = np.log1p(ho_test.Sales)
```

```
[33]: ho_xtest.head()
```

```
[33]:      Store  DayOfWeek  Promo  StateHoliday  SchoolHoliday  StoreType  \
0          1           4       1              0              1          3
679364     747           4       1              0              1          3
702362     772           4       1              0              1          4
683890     752           4       1              0              1          1
17714       20           4       1              0              0          4

      Assortment  CompetitionDistance  CompetitionOpenSinceMonth  \
0              1              1270.0              9.0
679364          3             45740.0              8.0
702362          3             1850.0              0.0
683890          1              970.0              3.0
17714          1             2340.0              5.0

      CompetitionOpenSinceYear  Promo2  Promo2SinceWeek  Promo2SinceYear  \
0              2008.0           0           0.0           0.0
679364          2008.0           0           0.0           0.0
702362           0.0           0           0.0           0.0
683890          2013.0           1          31.0          2013.0
17714          2009.0           1          40.0          2014.0

      Year  Month  Day  WeekOfYear  CompetitionOpen  PromoOpen  IsPromoMonth
0     2015     7   31           31           82.0     24187.75           1.0
679364  2015     7   31           31           83.0     24187.75           1.0
702362  2015     7   31           31          24187.0     24187.75           1.0
683890  2015     7   31           31           28.0        24.00           1.0
17714   2015     7   31           31           74.0         9.75           1.0
```

```
[34]: #test
      xtest =test.drop(['Id', 'Date', 'Open', 'PromoInterval', 'monthStr'],
                      axis = 1)
```

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```
[35]: def rmspe(y, yhat):
        return np.sqrt(np.mean((yhat/y-1)**2))

#
def rmspe_xg(yhat, y):
    y = np.expm1(y.get_label())
    yhat = np.expm1(yhat)
    return "rmspe", rmspe(y, yhat)
```

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```
[36]: #
params = {"objective": "reg:linear",
          "booster" : "gbtree",
          "eta": 0.03,
          "max_depth": 10,
          "subsample": 0.9,
          "colsample_bytree": 0.7,
          "silent": 1,
          "seed": 10
        }
num_boost_round = 600
```

```
[37]: #DMatrix XGBoost
dtrain = xgb.DMatrix(ho_xtrain, ho_ytrain)
dvalid = xgb.DMatrix(ho_xtest, ho_ytest)
watchlist = [(dtrain, 'train'), (dvalid, 'eval')]
```

/usr/local/miniconda3/lib/python3.7/site-packages/xgboost/core.py:587:
FutureWarning: Series.base is deprecated and will be removed in a future version
if getattr(data, 'base', None) is not None and \

```
[38]: #
print("Train a XGBoost model")
start = time()
gbm = xgb.train(params, dtrain, num_boost_round, evals=watchlist,
                early_stopping_rounds=100, feval=rmspe_xg, verbose_eval=True)
end = time()
print("Training time is {:.2f} s.".format(end-start))
```

Train a XGBoost model
[0] train-rmse:8.02732 eval-rmse:8.02732 train-rmspe:0.999811
eval-rmspe:0.999811
Multiple eval metrics have been passed: 'eval-rmspe' will be used for early

stopping.

Will train until eval-rmspe hasn't improved in 100 rounds.

[1]	train-rmse:7.787	eval-rmse:7.787	train-rmspe:0.999713	eval-rmspe:0.999713
[2]	train-rmse:7.55392	eval-rmse:7.55392	train-rmspe:0.999594	eval-rmspe:0.999594
[3]	train-rmse:7.32785	eval-rmse:7.32785	train-rmspe:0.999448	eval-rmspe:0.999448
[4]	train-rmse:7.10856	eval-rmse:7.10856	train-rmspe:0.999272	eval-rmspe:0.999272
[5]	train-rmse:6.89589	eval-rmse:6.89589	train-rmspe:0.999059	eval-rmspe:0.999059
[6]	train-rmse:6.6896	eval-rmse:6.6896	train-rmspe:0.998806	eval-rmspe:0.998806
[7]	train-rmse:6.48952	eval-rmse:6.48952	train-rmspe:0.998504	eval-rmspe:0.998504
[8]	train-rmse:6.29544	eval-rmse:6.29544	train-rmspe:0.998149	eval-rmspe:0.998149
[9]	train-rmse:6.10723	eval-rmse:6.10723	train-rmspe:0.997733	eval-rmspe:0.997733
[10]	train-rmse:5.92466	eval-rmse:5.92466	train-rmspe:0.997246	eval-rmspe:0.997246
[11]	train-rmse:5.74763	eval-rmse:5.74763	train-rmspe:0.996682	eval-rmspe:0.996682
[12]	train-rmse:5.5759	eval-rmse:5.5759	train-rmspe:0.99603	eval-rmspe:0.99603
[13]	train-rmse:5.40935	eval-rmse:5.40935	train-rmspe:0.995282	eval-rmspe:0.995282
[14]	train-rmse:5.24782	eval-rmse:5.24782	train-rmspe:0.994428	eval-rmspe:0.994428
[15]	train-rmse:5.09116	eval-rmse:5.09116	train-rmspe:0.993456	eval-rmspe:0.993456
[16]	train-rmse:4.93923	eval-rmse:4.93923	train-rmspe:0.992357	eval-rmspe:0.992357
[17]	train-rmse:4.79185	eval-rmse:4.79185	train-rmspe:0.99112	eval-rmspe:0.99112
[18]	train-rmse:4.64887	eval-rmse:4.64887	train-rmspe:0.989733	eval-rmspe:0.989733
[19]	train-rmse:4.51027	eval-rmse:4.51027	train-rmspe:0.988186	eval-rmspe:0.988186
[20]	train-rmse:4.37584	eval-rmse:4.37584	train-rmspe:0.986468	eval-rmspe:0.986468
[21]	train-rmse:4.24543	eval-rmse:4.24543	train-rmspe:0.984568	eval-rmspe:0.984568
[22]	train-rmse:4.11897	eval-rmse:4.11897	train-rmspe:0.982472	eval-rmspe:0.982472
[23]	train-rmse:3.99634	eval-rmse:3.99634	train-rmspe:0.98017	eval-rmspe:0.98017

eval-rmspe:0.98017		
[24] train-rmse:3.87741	eval-rmse:3.87741	train-rmspe:0.977651
eval-rmspe:0.977651		
[25] train-rmse:3.76213	eval-rmse:3.76213	train-rmspe:0.974904
eval-rmspe:0.974904		
[26] train-rmse:3.65023	eval-rmse:3.65023	train-rmspe:0.971925
eval-rmspe:0.971925		
[27] train-rmse:3.54173	eval-rmse:3.54173	train-rmspe:0.9687
eval-rmspe:0.9687		
[28] train-rmse:3.43652	eval-rmse:3.43652	train-rmspe:0.965217
eval-rmspe:0.965217		
[29] train-rmse:3.33448	eval-rmse:3.33448	train-rmspe:0.961479
eval-rmspe:0.961479		
[30] train-rmse:3.23555	eval-rmse:3.23555	train-rmspe:0.957474
eval-rmspe:0.957474		
[31] train-rmse:3.13963	eval-rmse:3.13963	train-rmspe:0.953188
eval-rmspe:0.953188		
[32] train-rmse:3.04655	eval-rmse:3.04655	train-rmspe:0.948627
eval-rmspe:0.948627		
[33] train-rmse:2.95634	eval-rmse:2.95634	train-rmspe:0.943775
eval-rmspe:0.943775		
[34] train-rmse:2.86882	eval-rmse:2.86882	train-rmspe:0.938647
eval-rmspe:0.938647		
[35] train-rmse:2.78398	eval-rmse:2.78398	train-rmspe:0.933237
eval-rmspe:0.933237		
[36] train-rmse:2.70169	eval-rmse:2.70169	train-rmspe:0.927552
eval-rmspe:0.927552		
[37] train-rmse:2.62196	eval-rmse:2.62196	train-rmspe:0.921548
eval-rmspe:0.921548		
[38] train-rmse:2.54464	eval-rmse:2.54464	train-rmspe:0.91526
eval-rmspe:0.91526		
[39] train-rmse:2.46959	eval-rmse:2.46959	train-rmspe:0.908711
eval-rmspe:0.908711		
[40] train-rmse:2.39682	eval-rmse:2.39682	train-rmspe:0.901879
eval-rmspe:0.901879		
[41] train-rmse:2.32628	eval-rmse:2.32628	train-rmspe:0.894752
eval-rmspe:0.894752		
[42] train-rmse:2.25796	eval-rmse:2.25796	train-rmspe:0.887318
eval-rmspe:0.887318		
[43] train-rmse:2.19157	eval-rmse:2.19157	train-rmspe:0.879687
eval-rmspe:0.879687		
[44] train-rmse:2.12726	eval-rmse:2.12726	train-rmspe:0.871757
eval-rmspe:0.871757		
[45] train-rmse:2.06495	eval-rmse:2.06495	train-rmspe:0.863557
eval-rmspe:0.863557		
[46] train-rmse:2.00449	eval-rmse:2.00449	train-rmspe:0.855147
eval-rmspe:0.855147		
[47] train-rmse:1.94579	eval-rmse:1.94579	train-rmspe:0.846541

eval-rmspe:0.846541		
[48] train-rmse:1.88896	eval-rmse:1.88896	train-rmspe:0.837679
eval-rmspe:0.837679		
[49] train-rmse:1.83395	eval-rmse:1.83395	train-rmspe:0.828542
eval-rmspe:0.828542		
[50] train-rmse:1.78058	eval-rmse:1.78058	train-rmspe:0.81924
eval-rmspe:0.81924		
[51] train-rmse:1.72885	eval-rmse:1.72885	train-rmspe:0.809723
eval-rmspe:0.809723		
[52] train-rmse:1.6786	eval-rmse:1.6786	train-rmspe:0.800068
eval-rmspe:0.800068		
[53] train-rmse:1.62985	eval-rmse:1.62985	train-rmspe:0.790273
eval-rmspe:0.790273		
[54] train-rmse:1.58257	eval-rmse:1.58257	train-rmspe:0.78032
eval-rmspe:0.78032		
[55] train-rmse:1.53687	eval-rmse:1.53687	train-rmspe:0.770178
eval-rmspe:0.770178		
[56] train-rmse:1.49251	eval-rmse:1.49251	train-rmspe:0.759939
eval-rmspe:0.759939		
[57] train-rmse:1.44964	eval-rmse:1.44964	train-rmspe:0.749516
eval-rmspe:0.749516		
[58] train-rmse:1.40788	eval-rmse:1.40788	train-rmspe:0.739119
eval-rmspe:0.739119		
[59] train-rmse:1.36751	eval-rmse:1.36751	train-rmspe:0.728544
eval-rmspe:0.728544		
[60] train-rmse:1.32812	eval-rmse:1.32812	train-rmspe:0.717977
eval-rmspe:0.717977		
[61] train-rmse:1.29014	eval-rmse:1.29014	train-rmspe:0.707284
eval-rmspe:0.707284		
[62] train-rmse:1.25335	eval-rmse:1.25335	train-rmspe:0.696553
eval-rmspe:0.696553		
[63] train-rmse:1.21762	eval-rmse:1.21762	train-rmspe:0.685804
eval-rmspe:0.685804		
[64] train-rmse:1.18307	eval-rmse:1.18307	train-rmspe:0.674987
eval-rmspe:0.674987		
[65] train-rmse:1.14968	eval-rmse:1.14968	train-rmspe:0.66414
eval-rmspe:0.66414		
[66] train-rmse:1.11732	eval-rmse:1.11732	train-rmspe:0.653321
eval-rmspe:0.653321		
[67] train-rmse:1.08589	eval-rmse:1.08589	train-rmspe:0.642489
eval-rmspe:0.642489		
[68] train-rmse:1.05554	eval-rmse:1.05554	train-rmspe:0.631687
eval-rmspe:0.631687		
[69] train-rmse:1.02603	eval-rmse:1.02603	train-rmspe:0.620969
eval-rmspe:0.620969		
[70] train-rmse:0.99761	eval-rmse:0.99761	train-rmspe:0.610242
eval-rmspe:0.610242		
[71] train-rmse:0.969912	eval-rmse:0.969912	train-rmspe:0.599599

eval-rmspe:0.599599		
[72] train-rmse:0.943288	eval-rmse:0.943288	train-rmspe:0.589005
eval-rmspe:0.589005		
[73] train-rmse:0.917118	eval-rmse:0.917118	train-rmspe:0.578551
eval-rmspe:0.578551		
[74] train-rmse:0.892063	eval-rmse:0.892063	train-rmspe:0.568135
eval-rmspe:0.568135		
[75] train-rmse:0.867758	eval-rmse:0.867758	train-rmspe:0.557831
eval-rmspe:0.557831		
[76] train-rmse:0.844294	eval-rmse:0.844294	train-rmspe:0.547611
eval-rmspe:0.547611		
[77] train-rmse:0.821557	eval-rmse:0.821557	train-rmspe:0.537538
eval-rmspe:0.537538		
[78] train-rmse:0.799327	eval-rmse:0.799327	train-rmspe:0.527581
eval-rmspe:0.527581		
[79] train-rmse:0.777911	eval-rmse:0.777911	train-rmspe:0.517749
eval-rmspe:0.517749		
[80] train-rmse:0.757397	eval-rmse:0.757397	train-rmspe:0.508045
eval-rmspe:0.508045		
[81] train-rmse:0.737424	eval-rmse:0.737424	train-rmspe:0.49851
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[567] train-rmse:0.08175	eval-rmse:0.08175	train-rmspe:0.084207
eval-rmspe:0.084207		
[568] train-rmse:0.081485	eval-rmse:0.081485	train-rmspe:0.083874
eval-rmspe:0.083874		
[569] train-rmse:0.081444	eval-rmse:0.081444	train-rmspe:0.083831
eval-rmspe:0.083831		
[570] train-rmse:0.081278	eval-rmse:0.081278	train-rmspe:0.083641
eval-rmspe:0.083641		
[571] train-rmse:0.081169	eval-rmse:0.081169	train-rmspe:0.083522
eval-rmspe:0.083522		
[572] train-rmse:0.081108	eval-rmse:0.081108	train-rmspe:0.083455
eval-rmspe:0.083455		
[573] train-rmse:0.081039	eval-rmse:0.081039	train-rmspe:0.083384
eval-rmspe:0.083384		
[574] train-rmse:0.080951	eval-rmse:0.080951	train-rmspe:0.083295
eval-rmspe:0.083295		
[575] train-rmse:0.080864	eval-rmse:0.080864	train-rmspe:0.083202

eval-rmspe:0.083202		
[576] train-rmse:0.080753	eval-rmse:0.080753	train-rmspe:0.083056
eval-rmspe:0.083056		
[577] train-rmse:0.080651	eval-rmse:0.080651	train-rmspe:0.082919
eval-rmspe:0.082919		
[578] train-rmse:0.080501	eval-rmse:0.080501	train-rmspe:0.082758
eval-rmspe:0.082758		
[579] train-rmse:0.080347	eval-rmse:0.080347	train-rmspe:0.082597
eval-rmspe:0.082597		
[580] train-rmse:0.080297	eval-rmse:0.080297	train-rmspe:0.082541
eval-rmspe:0.082541		
[581] train-rmse:0.080251	eval-rmse:0.080251	train-rmspe:0.082495
eval-rmspe:0.082495		
[582] train-rmse:0.080158	eval-rmse:0.080158	train-rmspe:0.082397
eval-rmspe:0.082397		
[583] train-rmse:0.080089	eval-rmse:0.080089	train-rmspe:0.082327
eval-rmspe:0.082327		
[584] train-rmse:0.080001	eval-rmse:0.080001	train-rmspe:0.082237
eval-rmspe:0.082237		
[585] train-rmse:0.079965	eval-rmse:0.079965	train-rmspe:0.082201
eval-rmspe:0.082201		
[586] train-rmse:0.079818	eval-rmse:0.079818	train-rmspe:0.082034
eval-rmspe:0.082034		
[587] train-rmse:0.079688	eval-rmse:0.079688	train-rmspe:0.081903
eval-rmspe:0.081903		
[588] train-rmse:0.079577	eval-rmse:0.079577	train-rmspe:0.081783
eval-rmspe:0.081783		
[589] train-rmse:0.079463	eval-rmse:0.079463	train-rmspe:0.08166
eval-rmspe:0.08166		
[590] train-rmse:0.079253	eval-rmse:0.079253	train-rmspe:0.081425
eval-rmspe:0.081425		
[591] train-rmse:0.079165	eval-rmse:0.079165	train-rmspe:0.081329
eval-rmspe:0.081329		
[592] train-rmse:0.079113	eval-rmse:0.079113	train-rmspe:0.081272
eval-rmspe:0.081272		
[593] train-rmse:0.078824	eval-rmse:0.078824	train-rmspe:0.080924
eval-rmspe:0.080924		
[594] train-rmse:0.078775	eval-rmse:0.078775	train-rmspe:0.080869
eval-rmspe:0.080869		
[595] train-rmse:0.078695	eval-rmse:0.078695	train-rmspe:0.080787
eval-rmspe:0.080787		
[596] train-rmse:0.078633	eval-rmse:0.078633	train-rmspe:0.080723
eval-rmspe:0.080723		
[597] train-rmse:0.07851	eval-rmse:0.07851	train-rmspe:0.080587
eval-rmspe:0.080587		
[598] train-rmse:0.078496	eval-rmse:0.078496	train-rmspe:0.080573
eval-rmspe:0.080573		
[599] train-rmse:0.078414	eval-rmse:0.078414	train-rmspe:0.080491

```
eval-rmspe:0.080491
Training time is 72.450142 s.
```

```
[39]: #
print("validating")
ho_xtest.sort_index(inplace=True)
ho_ytest.sort_index(inplace=True)
yhat = gbm.predict(xgb.DMatrix(ho_xtest))
error = rmspe(np.expm1(ho_ytest), np.expm1(yhat))

print("RMSPE: {:.6f}".format(error))
```

```
validating
RMSPE: 0.080491
```

11

```
[40]: #
res = pd.DataFrame(data = ho_ytest)
res['Prediction']=yhat
res = pd.merge(ho_xtest,res, left_index= True, right_index=True)
res['Ratio'] = res.Prediction/res.Sales
res['Error'] =abs(res.Ratio-1)
res['Weight'] = res.Sales/res.Prediction
res.head()
```

```
[40]: Store  DayOfWeek  Promo  StateHoliday  SchoolHoliday  StoreType  \
0      1           4      1             0             1           3
1      1           3      1             0             1           3
2      1           2      1             0             1           3
3      1           1      1             0             1           3
4      1           0      1             0             1           3

      Assortment  CompetitionDistance  CompetitionOpenSinceMonth  \
0              1              1270.0              9.0
1              1              1270.0              9.0
2              1              1270.0              9.0
3              1              1270.0              9.0
4              1              1270.0              9.0

      CompetitionOpenSinceYear  ...  Day  WeekOfYear  CompetitionOpen  PromoOpen  \
0              2008.0  ...   31      31           82.0       24187.75
1              2008.0  ...   30      31           82.0       24187.75
2              2008.0  ...   29      31           82.0       24187.75
3              2008.0  ...   28      31           82.0       24187.75
4              2008.0  ...   27      31           82.0       24187.75
```

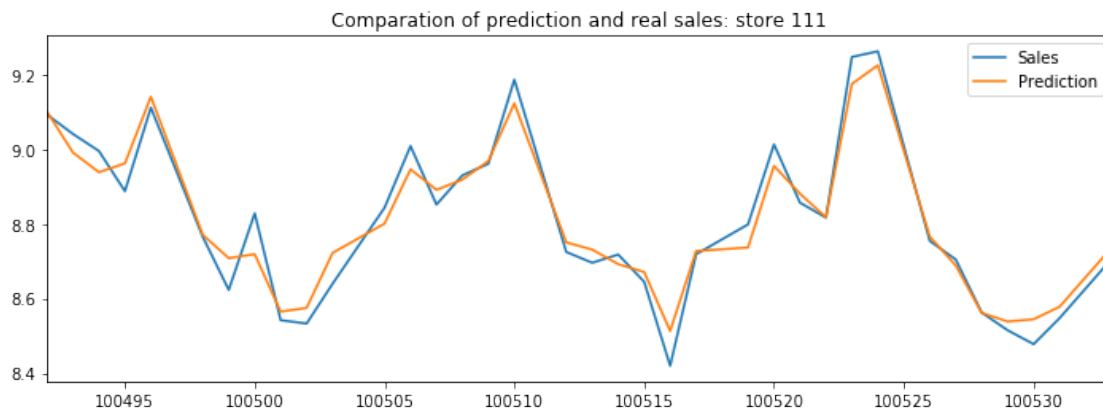
	IsPromoMonth	Sales	Prediction	Ratio	Error	Weight
0	1.0	8.568646	8.579742	1.001295	0.001295	0.998707
1	1.0	8.521384	8.489620	0.996272	0.003728	1.003742
2	1.0	8.472823	8.479414	1.000778	0.000778	0.999223
3	1.0	8.519590	8.549173	1.003472	0.003472	0.996540
4	1.0	8.716536	8.645967	0.991904	0.008096	1.008162

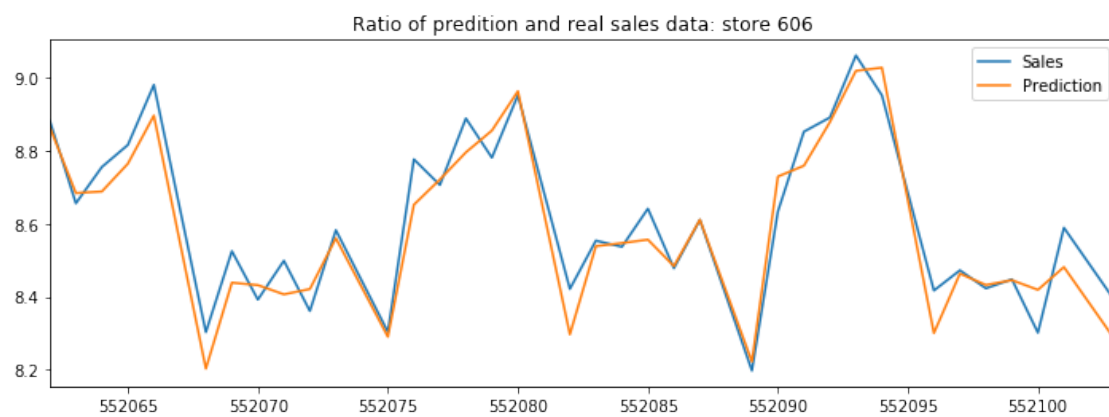
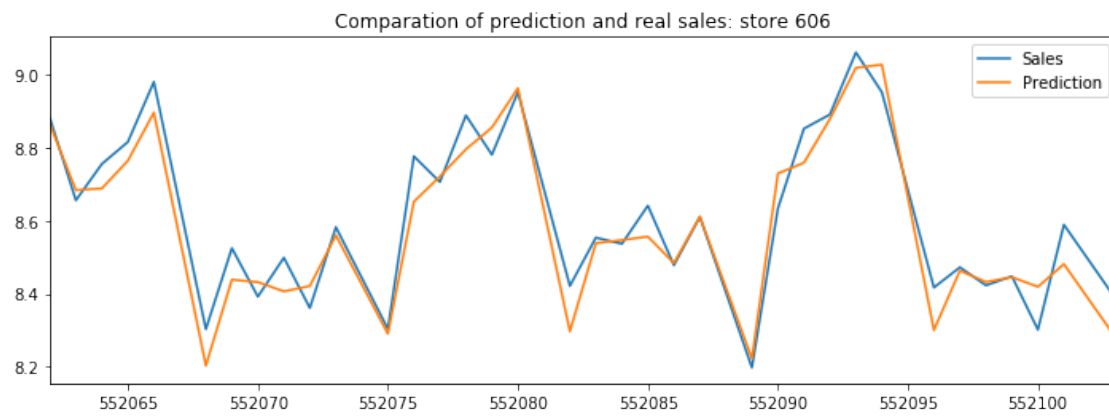
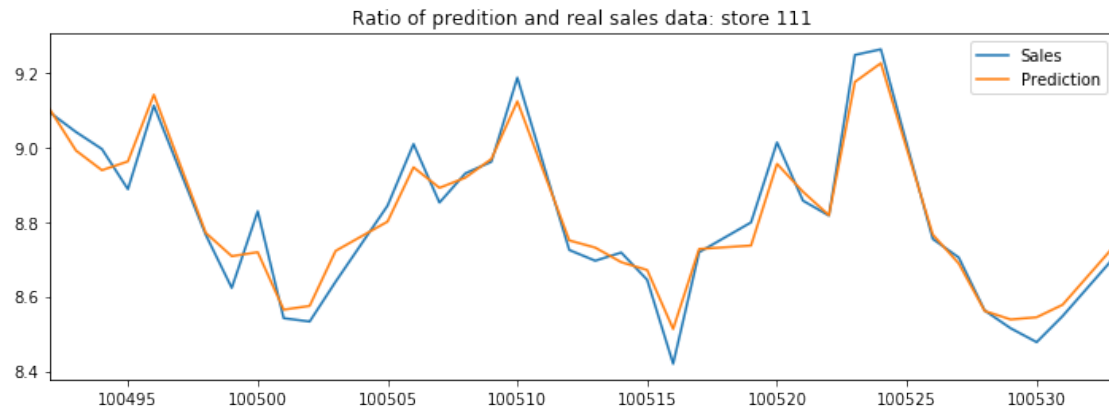
[5 rows x 25 columns]

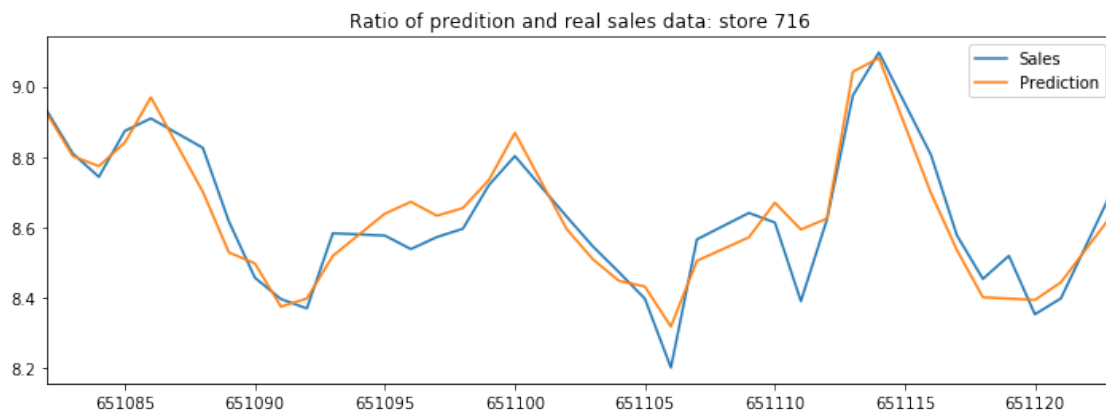
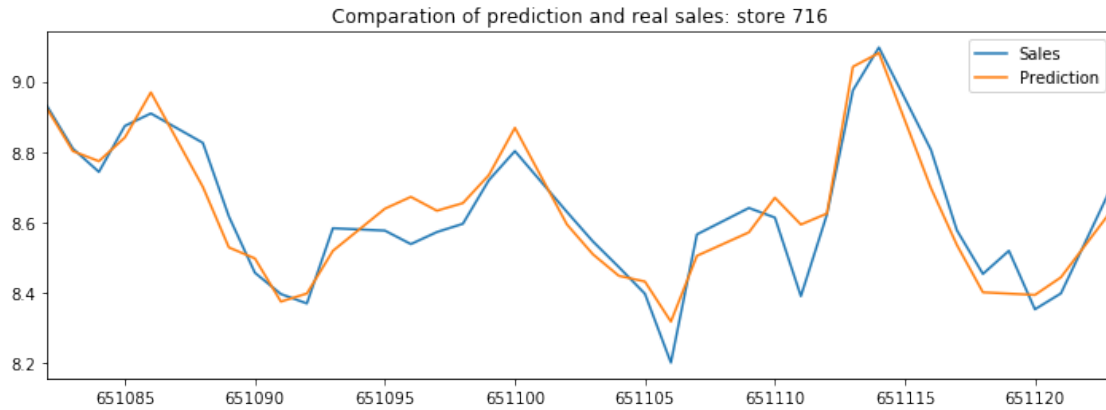
```
[41]: #
col_1 = ['Sales', 'Prediction']
col_2 = ['Ratio']
L = np.random.randint(low=1, high=1115, size=3)
print("Mean Ratio of prediction and real sales data is {}: store all"
      .format(res['Ratio'].mean()))

for i in L:
    s1 = pd.DataFrame(res[res['Store'] == i], columns=col_1)
    s2 = pd.DataFrame(res[res['Store'] == i], columns=col_2)
    s1.plot(title='Comparison of prediction and real sales: store {}'.format(i),
            figsize=(12, 4))
    s1.plot(title='Ratio of prediction and real sales data: store {}'.format(i),
            figsize=(12, 4))
    print('Mean Ratio of prediction and real sales data is {}: store {}'.format(s2['Ratio'].mean(), i))
```

Mean Ratio of prediction and real sales data is 1.000200092018882: store all
Mean Ratio of prediction and real sales data is 1.0004151293569692: store 111
Mean Ratio of prediction and real sales data is 0.997125945045729: store 606
Mean Ratio of prediction and real sales data is 1.000501241455753: store 716







```
[42]: #10
res.sort_values(['Error'], ascending=False, inplace=True)
res[:10]
```

```
[42]:
```

	Store	DayOfWeek	Promo	StateHoliday	SchoolHoliday	StoreType	\
264207	292	4	0	0	0	1	
711449	782	4	0	0	0	3	
264213	292	5	0	0	0	1	
456286	501	5	0	0	0	1	
937688	1029	5	0	0	0	1	
937667	1029	5	0	0	0	1	
165039	183	4	0	0	0	1	
818909	899	5	0	0	0	4	
440257	483	5	0	0	0	1	
264218	292	0	1	0	0	1	

	Assortment	CompetitionDistance	CompetitionOpenSinceMonth	\
264207	1	1100.0	6.0	

711449	3	5390.0	8.0
264213	1	1100.0	6.0
456286	3	1620.0	9.0
937688	1	1590.0	3.0
937667	1	1590.0	3.0
165039	1	9670.0	0.0
818909	1	2590.0	0.0
440257	3	2310.0	9.0
264218	1	1100.0	6.0

	CompetitionOpen	SinceYear	...	Day	WeekOfYear	CompetitionOpen	\
264207		2009.0	...	10	28	73.0	
711449		2003.0	...	26	26	142.0	
264213		2009.0	...	4	27	73.0	
456286		2006.0	...	25	30	106.0	
937688		2006.0	...	20	25	111.0	
937667		2006.0	...	11	28	112.0	
165039		0.0	...	26	26	24186.0	
818909		0.0	...	20	25	24186.0	
440257		2011.0	...	18	29	46.0	
264218		2009.0	...	29	27	72.0	

	PromoOpen	IsPromoMonth	Sales	Prediction	Ratio	Error	\
264207	24187.00	1.0	6.920672	8.044688	1.162414	0.162414	
711449	42.25	1.0	7.260523	8.007283	1.102852	0.102852	
264213	24186.75	1.0	7.406711	8.004181	1.080666	0.080666	
456286	24187.50	1.0	7.360104	7.943919	1.079322	0.079322	
937688	24186.25	1.0	7.338888	7.916481	1.078703	0.078703	
937667	24187.00	1.0	7.325149	7.883104	1.076170	0.076170	
165039	24186.50	1.0	9.579418	8.850098	0.923866	0.076134	
818909	63.00	1.0	7.521318	8.066490	1.072484	0.072484	
440257	64.00	1.0	7.310550	7.819795	1.069659	0.069659	
264218	24186.75	1.0	10.280622	9.602065	0.933997	0.066003	

	Weight
264207	0.860278
711449	0.906740
264213	0.925355
456286	0.926508
937688	0.927039
937667	0.929221
165039	1.082408
818909	0.932415
440257	0.934878
264218	1.070668

[10 rows x 25 columns]

12

```
[43]: #hold_out
#
#
#hold_out
```

7.1

```
[44]: print("Weight correction")
W = [(0.990+(i/1000)) for i in range(20)]
S = []
for w in W:
    error = rmspe(np.expm1(ho_ytest), np.expm1(yhat*w))
    print('RMSPE for {:.3f}:{:.6f}'.format(w, error))
    S.append(error)

Score = pd.Series(S, index=W)
Score.plot()
BS = Score[Score.values == Score.values.min()]
print('Best weight for Score:{}'.format(BS))
```

Weight correction

RMSPE for 0.990:0.110329

RMSPE for 0.991:0.104919

RMSPE for 0.992:0.099831

RMSPE for 0.993:0.095135

RMSPE for 0.994:0.090911

RMSPE for 0.995:0.087248

RMSPE for 0.996:0.084241

RMSPE for 0.997:0.081985

RMSPE for 0.998:0.080566

RMSPE for 0.999:0.080054

RMSPE for 1.000:0.080491

RMSPE for 1.001:0.081886

RMSPE for 1.002:0.084216

RMSPE for 1.003:0.087431

RMSPE for 1.004:0.091461

RMSPE for 1.005:0.096226

RMSPE for 1.006:0.101645

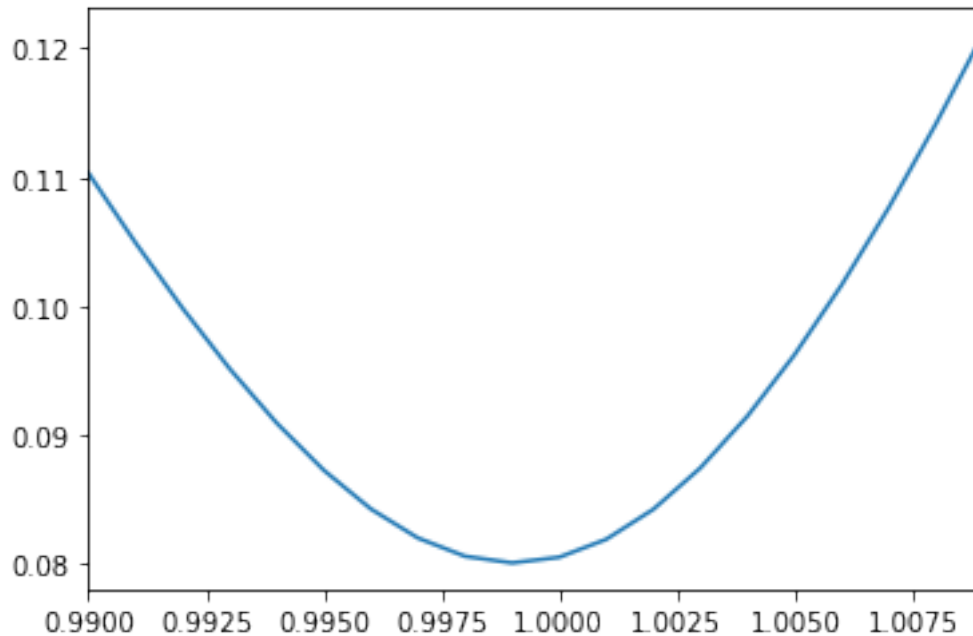
RMSPE for 1.007:0.107641

RMSPE for 1.008:0.114143

RMSPE for 1.009:0.121090

Best weight for Score:0.999 0.080054

dtype: float64



[45]: `#0.999hold_outRMSPE:0.080054`

7.2

```
[46]: #RMSPE
L=range(1115)
W_ho=[]
W_test=[]
for i in L:
    s1 = pd.DataFrame(res[res['Store']==i+1],columns = col_1)
    s2 = pd.DataFrame(xtest[xtest['Store']==i+1])
    W1=[(0.990+(i/1000)) for i in range(20)]
    S = []
    for w in W1:
        error = rmspe(np.expm1(s1.Sales), np.expm1(s1.Prediction*w))
        S.append(error)
    Score = pd.Series(S,index=W1)
    BS = Score[Score.values == Score.values.min()]
    a=np.array(BS.index.values)
    b_ho=a.repeat(len(s1))
    b_test=a.repeat(len(s2))
    W_ho.extend(b_ho.tolist())
    W_test.extend(b_test.tolist())
```

```
[47]: #RMSPE
yhat_new = yhat*W_ho
error = rmspe(np.expm1(ho_ytest), np.expm1(yhat_new))
print ('RMSPE for weight corretion {:.6f}'.format(error))
```


error

RMSPE for weight correction 0.074398

[47]: 0.07439820100243298

```
[48]: #
print("Make predictions on the test set")
dtest = xgb.DMatrix(xtest)
test_probs = gbm.predict(dtest)

#
result = pd.DataFrame({"Id": test['Id'], 'Sales': np.exp1(test_probs)})
result.to_csv("origin.csv", index=False)

#
result = pd.DataFrame({"Id": test['Id'], 'Sales': np.exp1(test_probs*0.995)})
result.to_csv("general.csv", index=False)

#
result = pd.DataFrame({"Id": test['Id'], 'Sales': np.exp1(test_probs*W_test)})
result.to_csv("detail.csv", index=False)
```

Make predictions on the test set

```
[49]: #ho_test:67
      #test:89

print("Train an new ensemble XGBoost model")
start = time()
rounds = 10
preds_ho = np.zeros((len(ho_xtest.index), rounds))
preds_test = np.zeros((len(test.index), rounds))
B=[]
for r in range(rounds):
    print('round {}:'.format(r+1))

    params = {"objective": "reg:linear",
              "booster" : "gbtree",
              "eta": 0.03,
              "max_depth": 10,
              "subsample": 0.9,
              "colsample_bytree": 0.7,
              "silent": 1,
              "seed": r+1
             }
    num_boost_round = 600
```

```

gbm = xgb.train(params, dtrain, num_boost_round, evals=watchlist,
                early_stopping_rounds=100, feval=rmspe_xg,
→ verbose_eval=True)

yhat = gbm.predict(xgb.DMatrix(ho_xtest))

L=range(1115)
W_ho=[]
W_test=[]
for i in L:
    s1 = pd.DataFrame(res[res['Store']==i+1], columns = col_1)
    s2 = pd.DataFrame(xtest[xtest['Store']==i+1])
    W1=[(0.990+(i/1000)) for i in range(20)]
    S = []
    for w in W1:
        error = rmspe(np.expm1(s1.Sales), np.expm1(s1.Prediction*w))
        S.append(error)
    Score = pd.Series(S, index=W1)
    BS = Score[Score.values == Score.values.min()]
    a=np.array(BS.index.values)
    b_ho=a.repeat(len(s1))
    b_test=a.repeat(len(s2))
    W_ho.extend(b_ho.tolist())
    W_test.extend(b_test.tolist())

yhat_ho = yhat*W_ho
yhat_test = gbm.predict(xgb.DMatrix(xtest))*W_test
error = rmspe(np.expm1(ho_ytest), np.expm1(yhat_ho))
B.append(error)
preds_ho[:, r] = yhat_ho
preds_test[:, r] = yhat_test
print('round {} end'.format(r+1))

end = time()
time_elapsed = end-start
print('Training is end')
print('Training time is {} h.'.format(time_elapsed/3600))

```

Train an new ensemble XGBoost model

round 1:

```
[0]      train-rmse:8.02734      eval-rmse:8.02734      train-rmspe:0.999811
eval-rmspe:0.999811
```

Multiple eval metrics have been passed: 'eval-rmspe' will be used for early stopping.

Will train until eval-rmspe hasn't improved in 100 rounds.

[1]	train-rmse:7.78705 eval-rmspe:0.999713	eval-rmse:7.78705	train-rmspe:0.999713
[2]	train-rmse:7.55398 eval-rmspe:0.999594	eval-rmse:7.55398	train-rmspe:0.999594
[3]	train-rmse:7.32792 eval-rmspe:0.999448	eval-rmse:7.32792	train-rmspe:0.999448
[4]	train-rmse:7.10867 eval-rmspe:0.999272	eval-rmse:7.10867	train-rmspe:0.999272
[5]	train-rmse:6.89601 eval-rmspe:0.999059	eval-rmse:6.89601	train-rmspe:0.999059
[6]	train-rmse:6.68973 eval-rmspe:0.998806	eval-rmse:6.68973	train-rmspe:0.998806
[7]	train-rmse:6.48967 eval-rmspe:0.998505	eval-rmse:6.48967	train-rmspe:0.998505
[8]	train-rmse:6.29565 eval-rmspe:0.998149	eval-rmse:6.29565	train-rmspe:0.998149
[9]	train-rmse:6.10743 eval-rmspe:0.997732	eval-rmse:6.10743	train-rmspe:0.997732
[10]	train-rmse:5.92484 eval-rmspe:0.997246	eval-rmse:5.92484	train-rmspe:0.997246
[11]	train-rmse:5.74779 eval-rmspe:0.996681	eval-rmse:5.74779	train-rmspe:0.996681
[12]	train-rmse:5.57605 eval-rmspe:0.99603	eval-rmse:5.57605	train-rmspe:0.99603
[13]	train-rmse:5.40948 eval-rmspe:0.995282	eval-rmse:5.40948	train-rmspe:0.995282
[14]	train-rmse:5.24794 eval-rmspe:0.994427	eval-rmse:5.24794	train-rmspe:0.994427
[15]	train-rmse:5.09125 eval-rmspe:0.993456	eval-rmse:5.09125	train-rmspe:0.993456
[16]	train-rmse:4.93927 eval-rmspe:0.992359	eval-rmse:4.93927	train-rmspe:0.992359
[17]	train-rmse:4.79191 eval-rmspe:0.991121	eval-rmse:4.79191	train-rmspe:0.991121
[18]	train-rmse:4.64901 eval-rmspe:0.989735	eval-rmse:4.64901	train-rmspe:0.989735
[19]	train-rmse:4.51037 eval-rmspe:0.988188	eval-rmse:4.51037	train-rmspe:0.988188
[20]	train-rmse:4.37589 eval-rmspe:0.986469	eval-rmse:4.37589	train-rmspe:0.986469
[21]	train-rmse:4.24548 eval-rmspe:0.984565	eval-rmse:4.24548	train-rmspe:0.984565
[22]	train-rmse:4.11907 eval-rmspe:0.982467	eval-rmse:4.11907	train-rmspe:0.982467
[23]	train-rmse:3.99641 eval-rmspe:0.980169	eval-rmse:3.99641	train-rmspe:0.980169
[24]	train-rmse:3.87745 eval-rmspe:0.977654	eval-rmse:3.87745	train-rmspe:0.977654

[25]	train-rmse:3.76212	eval-rmse:3.76212	train-rmspe:0.974905
	eval-rmspe:0.974905		
[26]	train-rmse:3.65024	eval-rmse:3.65024	train-rmspe:0.971928
	eval-rmspe:0.971928		
[27]	train-rmse:3.54174	eval-rmse:3.54174	train-rmspe:0.968704
	eval-rmspe:0.968704		
[28]	train-rmse:3.43651	eval-rmse:3.43651	train-rmspe:0.965221
	eval-rmspe:0.965221		
[29]	train-rmse:3.33447	eval-rmse:3.33447	train-rmspe:0.961478
	eval-rmspe:0.961478		
[30]	train-rmse:3.23552	eval-rmse:3.23552	train-rmspe:0.957474
	eval-rmspe:0.957474		
[31]	train-rmse:3.13959	eval-rmse:3.13959	train-rmspe:0.953186
	eval-rmspe:0.953186		
[32]	train-rmse:3.04655	eval-rmse:3.04655	train-rmspe:0.948626
	eval-rmspe:0.948626		
[33]	train-rmse:2.95629	eval-rmse:2.95629	train-rmspe:0.943782
	eval-rmspe:0.943782		
[34]	train-rmse:2.86879	eval-rmse:2.86879	train-rmspe:0.938655
	eval-rmspe:0.938655		
[35]	train-rmse:2.78392	eval-rmse:2.78392	train-rmspe:0.933235
	eval-rmspe:0.933235		
[36]	train-rmse:2.70161	eval-rmse:2.70161	train-rmspe:0.927555
	eval-rmspe:0.927555		
[37]	train-rmse:2.62181	eval-rmse:2.62181	train-rmspe:0.921557
	eval-rmspe:0.921557		
[38]	train-rmse:2.54441	eval-rmse:2.54441	train-rmspe:0.915295
	eval-rmspe:0.915295		
[39]	train-rmse:2.46941	eval-rmse:2.46941	train-rmspe:0.908702
	eval-rmspe:0.908702		
[40]	train-rmse:2.39668	eval-rmse:2.39668	train-rmspe:0.901861
	eval-rmspe:0.901861		
[41]	train-rmse:2.32618	eval-rmse:2.32618	train-rmspe:0.894724
	eval-rmspe:0.894724		
[42]	train-rmse:2.25772	eval-rmse:2.25772	train-rmspe:0.887354
	eval-rmspe:0.887354		
[43]	train-rmse:2.19139	eval-rmse:2.19139	train-rmspe:0.879682
	eval-rmspe:0.879682		
[44]	train-rmse:2.12714	eval-rmse:2.12714	train-rmspe:0.871736
	eval-rmspe:0.871736		
[45]	train-rmse:2.0648	eval-rmse:2.0648	train-rmspe:0.863555
	eval-rmspe:0.863555		
[46]	train-rmse:2.00441	eval-rmse:2.00441	train-rmspe:0.855128
	eval-rmspe:0.855128		
[47]	train-rmse:1.94586	eval-rmse:1.94586	train-rmspe:0.84644
	eval-rmspe:0.84644		
[48]	train-rmse:1.88902	eval-rmse:1.88902	train-rmspe:0.83756
	eval-rmspe:0.83756		

[49]	train-rmse:1.83396 eval-rmspe:0.82845	eval-rmse:1.83396	train-rmspe:0.82845
[50]	train-rmse:1.78055 eval-rmspe:0.819139	eval-rmse:1.78055	train-rmspe:0.819139
[51]	train-rmse:1.72887 eval-rmspe:0.809598	eval-rmse:1.72887	train-rmspe:0.809598
[52]	train-rmse:1.67854 eval-rmspe:0.800003	eval-rmse:1.67854	train-rmspe:0.800003
[53]	train-rmse:1.62987 eval-rmspe:0.790172	eval-rmse:1.62987	train-rmspe:0.790172
[54]	train-rmse:1.58277 eval-rmspe:0.780159	eval-rmse:1.58277	train-rmspe:0.780159
[55]	train-rmse:1.53708 eval-rmspe:0.77002	eval-rmse:1.53708	train-rmspe:0.77002
[56]	train-rmse:1.49277 eval-rmspe:0.759766	eval-rmse:1.49277	train-rmspe:0.759766
[57]	train-rmse:1.44978 eval-rmspe:0.749385	eval-rmse:1.44978	train-rmspe:0.749385
[58]	train-rmse:1.4082 eval-rmspe:0.738885	eval-rmse:1.4082	train-rmspe:0.738885
[59]	train-rmse:1.36793 eval-rmspe:0.728275	eval-rmse:1.36793	train-rmspe:0.728275
[60]	train-rmse:1.32864 eval-rmspe:0.717692	eval-rmse:1.32864	train-rmspe:0.717692
[61]	train-rmse:1.29073 eval-rmspe:0.706973	eval-rmse:1.29073	train-rmspe:0.706973
[62]	train-rmse:1.254 rmspe:0.696241	eval-rmse:1.254	train-rmspe:0.696241 eval-
[63]	train-rmse:1.21843 eval-rmspe:0.685434	eval-rmse:1.21843	train-rmspe:0.685434
[64]	train-rmse:1.18367 eval-rmspe:0.674692	eval-rmse:1.18367	train-rmspe:0.674692
[65]	train-rmse:1.15008 eval-rmspe:0.663947	eval-rmse:1.15008	train-rmspe:0.663947
[66]	train-rmse:1.11782 eval-rmspe:0.653096	eval-rmse:1.11782	train-rmspe:0.653096
[67]	train-rmse:1.08641 eval-rmspe:0.642304	eval-rmse:1.08641	train-rmspe:0.642304
[68]	train-rmse:1.05575 eval-rmspe:0.631547	eval-rmse:1.05575	train-rmspe:0.631547
[69]	train-rmse:1.02591 eval-rmspe:0.620894	eval-rmse:1.02591	train-rmspe:0.620894
[70]	train-rmse:0.997023 eval-rmspe:0.610232	eval-rmse:0.997023	train-rmspe:0.610232
[71]	train-rmse:0.969291 eval-rmspe:0.599609	eval-rmse:0.969291	train-rmspe:0.599609
[72]	train-rmse:0.942573 eval-rmspe:0.589032	eval-rmse:0.942573	train-rmspe:0.589032

[73]	train-rmse:0.916465 eval-rmspe:0.578546	eval-rmse:0.916465	train-rmspe:0.578546
[74]	train-rmse:0.891363 eval-rmspe:0.568118	eval-rmse:0.891363	train-rmspe:0.568118
[75]	train-rmse:0.866957 eval-rmspe:0.557812	eval-rmse:0.866957	train-rmspe:0.557812
[76]	train-rmse:0.843446 eval-rmspe:0.547601	eval-rmse:0.843446	train-rmspe:0.547601
[77]	train-rmse:0.820444 eval-rmspe:0.537506	eval-rmse:0.820444	train-rmspe:0.537506
[78]	train-rmse:0.798339 eval-rmspe:0.527531	eval-rmse:0.798339	train-rmspe:0.527531
[79]	train-rmse:0.777117 eval-rmspe:0.517655	eval-rmse:0.777117	train-rmspe:0.517655
[80]	train-rmse:0.756426 eval-rmspe:0.50794	eval-rmse:0.756426	train-rmspe:0.50794
[81]	train-rmse:0.736397 eval-rmspe:0.498348	eval-rmse:0.736397	train-rmspe:0.498348
[82]	train-rmse:0.716907 eval-rmspe:0.488912	eval-rmse:0.716907	train-rmspe:0.488912
[83]	train-rmse:0.69833 eval-rmspe:0.479645	eval-rmse:0.69833	train-rmspe:0.479645
[84]	train-rmse:0.680358 eval-rmspe:0.470552	eval-rmse:0.680358	train-rmspe:0.470552
[85]	train-rmse:0.663014 eval-rmspe:0.461638	eval-rmse:0.663014	train-rmspe:0.461638
[86]	train-rmse:0.645834 eval-rmspe:0.452812	eval-rmse:0.645834	train-rmspe:0.452812
[87]	train-rmse:0.629236 eval-rmspe:0.444177	eval-rmse:0.629236	train-rmspe:0.444177
[88]	train-rmse:0.613323 eval-rmspe:0.435745	eval-rmse:0.613323	train-rmspe:0.435745
[89]	train-rmse:0.598218 eval-rmspe:0.427519	eval-rmse:0.598218	train-rmspe:0.427519
[90]	train-rmse:0.583274 eval-rmspe:0.419409	eval-rmse:0.583274	train-rmspe:0.419409
[91]	train-rmse:0.56845 eval-rmspe:0.411362	eval-rmse:0.56845	train-rmspe:0.411362
[92]	train-rmse:0.554504 eval-rmspe:0.403615	eval-rmse:0.554504	train-rmspe:0.403615
[93]	train-rmse:0.540783 eval-rmspe:0.395962	eval-rmse:0.540783	train-rmspe:0.395962
[94]	train-rmse:0.527793 eval-rmspe:0.388609	eval-rmse:0.527793	train-rmspe:0.388609
[95]	train-rmse:0.515338 eval-rmspe:0.381431	eval-rmse:0.515338	train-rmspe:0.381431
[96]	train-rmse:0.503429 eval-rmspe:0.374515	eval-rmse:0.503429	train-rmspe:0.374515

[97]	train-rmse:0.491813	eval-rmse:0.491813	train-rmspe:0.367767
	eval-rmspe:0.367767		
[98]	train-rmse:0.480103	eval-rmse:0.480103	train-rmspe:0.360981
	eval-rmspe:0.360981		
[99]	train-rmse:0.469486	eval-rmse:0.469486	train-rmspe:0.35468
	eval-rmspe:0.35468		
[100]	train-rmse:0.4589	eval-rmse:0.4589	train-rmspe:0.348375
	eval-rmspe:0.348375		
[101]	train-rmse:0.448976	eval-rmse:0.448976	train-rmspe:0.342424
	eval-rmspe:0.342424		
[102]	train-rmse:0.439494	eval-rmse:0.439494	train-rmspe:0.336707
	eval-rmspe:0.336707		
[103]	train-rmse:0.430034	eval-rmse:0.430034	train-rmspe:0.331024
	eval-rmspe:0.331024		
[104]	train-rmse:0.421251	eval-rmse:0.421251	train-rmspe:0.325717
	eval-rmspe:0.325717		
[105]	train-rmse:0.41247	eval-rmse:0.41247	train-rmspe:0.320427
	eval-rmspe:0.320427		
[106]	train-rmse:0.4042	eval-rmse:0.4042	train-rmspe:0.315399
	eval-rmspe:0.315399		
[107]	train-rmse:0.395858	eval-rmse:0.395858	train-rmspe:0.310371
	eval-rmspe:0.310371		
[108]	train-rmse:0.388215	eval-rmse:0.388215	train-rmspe:0.305732
	eval-rmspe:0.305732		
[109]	train-rmse:0.380423	eval-rmse:0.380423	train-rmspe:0.301047
	eval-rmspe:0.301047		
[110]	train-rmse:0.373419	eval-rmse:0.373419	train-rmspe:0.296793
	eval-rmspe:0.296793		
[111]	train-rmse:0.365467	eval-rmse:0.365467	train-rmspe:0.29195
	eval-rmspe:0.29195		
[112]	train-rmse:0.358498	eval-rmse:0.358498	train-rmspe:0.28768
	eval-rmspe:0.28768		
[113]	train-rmse:0.351992	eval-rmse:0.351992	train-rmspe:0.283666
	eval-rmspe:0.283666		
[114]	train-rmse:0.3456	eval-rmse:0.3456	train-rmspe:0.27979
	eval-rmspe:0.27979		
[115]	train-rmse:0.339658	eval-rmse:0.339658	train-rmspe:0.276176
	eval-rmspe:0.276176		
[116]	train-rmse:0.333767	eval-rmse:0.333767	train-rmspe:0.272619
	eval-rmspe:0.272619		
[117]	train-rmse:0.32796	eval-rmse:0.32796	train-rmspe:0.269102
	eval-rmspe:0.269102		
[118]	train-rmse:0.322789	eval-rmse:0.322789	train-rmspe:0.266031
	eval-rmspe:0.266031		
[119]	train-rmse:0.31749	eval-rmse:0.31749	train-rmspe:0.262814
	eval-rmspe:0.262814		
[120]	train-rmse:0.312718	eval-rmse:0.312718	train-rmspe:0.259991
	eval-rmspe:0.259991		

[121]	train-rmse:0.308019 eval-rmspe:0.257158	eval-rmse:0.308019	train-rmspe:0.257158
[122]	train-rmse:0.303352 eval-rmspe:0.254394	eval-rmse:0.303352	train-rmspe:0.254394
[123]	train-rmse:0.298544 eval-rmspe:0.251506	eval-rmse:0.298544	train-rmspe:0.251506
[124]	train-rmse:0.294279 eval-rmspe:0.249056	eval-rmse:0.294279	train-rmspe:0.249056
[125]	train-rmse:0.289984 eval-rmspe:0.246495	eval-rmse:0.289984	train-rmspe:0.246495
[126]	train-rmse:0.285946 eval-rmspe:0.244166	eval-rmse:0.285946	train-rmspe:0.244166
[127]	train-rmse:0.28214 eval-rmspe:0.241982	eval-rmse:0.28214	train-rmspe:0.241982
[128]	train-rmse:0.27842 eval-rmspe:0.239859	eval-rmse:0.27842	train-rmspe:0.239859
[129]	train-rmse:0.274904 eval-rmspe:0.237868	eval-rmse:0.274904	train-rmspe:0.237868
[130]	train-rmse:0.2708 eval-rmspe:0.235272	eval-rmse:0.2708	train-rmspe:0.235272
[131]	train-rmse:0.26728 eval-rmspe:0.233184	eval-rmse:0.26728	train-rmspe:0.233184
[132]	train-rmse:0.263923 eval-rmspe:0.231259	eval-rmse:0.263923	train-rmspe:0.231259
[133]	train-rmse:0.260642 eval-rmspe:0.229374	eval-rmse:0.260642	train-rmspe:0.229374
[134]	train-rmse:0.257457 eval-rmspe:0.227531	eval-rmse:0.257457	train-rmspe:0.227531
[135]	train-rmse:0.254711 eval-rmspe:0.226031	eval-rmse:0.254711	train-rmspe:0.226031
[136]	train-rmse:0.25199 eval-rmspe:0.224557	eval-rmse:0.25199	train-rmspe:0.224557
[137]	train-rmse:0.248722 eval-rmspe:0.222557	eval-rmse:0.248722	train-rmspe:0.222557
[138]	train-rmse:0.246125 eval-rmspe:0.221116	eval-rmse:0.246125	train-rmspe:0.221116
[139]	train-rmse:0.243796 eval-rmspe:0.219854	eval-rmse:0.243796	train-rmspe:0.219854
[140]	train-rmse:0.24162 eval-rmspe:0.218685	eval-rmse:0.24162	train-rmspe:0.218685
[141]	train-rmse:0.23923 eval-rmspe:0.217394	eval-rmse:0.23923	train-rmspe:0.217394
[142]	train-rmse:0.237184 eval-rmspe:0.216359	eval-rmse:0.237184	train-rmspe:0.216359
[143]	train-rmse:0.235153 eval-rmspe:0.215314	eval-rmse:0.235153	train-rmspe:0.215314
[144]	train-rmse:0.233178 eval-rmspe:0.21431	eval-rmse:0.233178	train-rmspe:0.21431

[145]	train-rmse:0.23143 eval-rmspe:0.213453	eval-rmse:0.23143	train-rmspe:0.213453
[146]	train-rmse:0.229314 eval-rmspe:0.212258	eval-rmse:0.229314	train-rmspe:0.212258
[147]	train-rmse:0.227702 eval-rmspe:0.211476	eval-rmse:0.227702	train-rmspe:0.211476
[148]	train-rmse:0.226156 eval-rmspe:0.210722	eval-rmse:0.226156	train-rmspe:0.210722
[149]	train-rmse:0.224718 eval-rmspe:0.210137	eval-rmse:0.224718	train-rmspe:0.210137
[150]	train-rmse:0.223174 eval-rmspe:0.209364	eval-rmse:0.223174	train-rmspe:0.209364
[151]	train-rmse:0.221689 eval-rmspe:0.208666	eval-rmse:0.221689	train-rmspe:0.208666
[152]	train-rmse:0.220368 eval-rmspe:0.208057	eval-rmse:0.220368	train-rmspe:0.208057
[153]	train-rmse:0.218947 eval-rmspe:0.207381	eval-rmse:0.218947	train-rmspe:0.207381
[154]	train-rmse:0.217448 eval-rmspe:0.206608	eval-rmse:0.217448	train-rmspe:0.206608
[155]	train-rmse:0.216135 eval-rmspe:0.20594	eval-rmse:0.216135	train-rmspe:0.20594
[156]	train-rmse:0.214039 eval-rmspe:0.204495	eval-rmse:0.214039	train-rmspe:0.204495
[157]	train-rmse:0.213009 eval-rmspe:0.204072	eval-rmse:0.213009	train-rmspe:0.204072
[158]	train-rmse:0.21217 eval-rmspe:0.203831	eval-rmse:0.21217	train-rmspe:0.203831
[159]	train-rmse:0.21097 eval-rmspe:0.203237	eval-rmse:0.21097	train-rmspe:0.203237
[160]	train-rmse:0.210031 eval-rmspe:0.202924	eval-rmse:0.210031	train-rmspe:0.202924
[161]	train-rmse:0.208327 eval-rmspe:0.201748	eval-rmse:0.208327	train-rmspe:0.201748
[162]	train-rmse:0.206905 eval-rmspe:0.200792	eval-rmse:0.206905	train-rmspe:0.200792
[163]	train-rmse:0.205592 eval-rmspe:0.19998	eval-rmse:0.205592	train-rmspe:0.19998
[164]	train-rmse:0.204792 eval-rmspe:0.199653	eval-rmse:0.204792	train-rmspe:0.199653
[165]	train-rmse:0.203091 eval-rmspe:0.198387	eval-rmse:0.203091	train-rmspe:0.198387
[166]	train-rmse:0.201948 eval-rmspe:0.197719	eval-rmse:0.201948	train-rmspe:0.197719
[167]	train-rmse:0.201068 eval-rmspe:0.197291	eval-rmse:0.201068	train-rmspe:0.197291
[168]	train-rmse:0.200305 eval-rmspe:0.196958	eval-rmse:0.200305	train-rmspe:0.196958

[169]	train-rmse:0.199354 eval-rmspe:0.196411	eval-rmse:0.199354	train-rmspe:0.196411
[170]	train-rmse:0.197669 eval-rmspe:0.195076	eval-rmse:0.197669	train-rmspe:0.195076
[171]	train-rmse:0.196874 eval-rmspe:0.194677	eval-rmse:0.196874	train-rmspe:0.194677
[172]	train-rmse:0.196179 eval-rmspe:0.19435	eval-rmse:0.196179	train-rmspe:0.19435
[173]	train-rmse:0.195566 eval-rmspe:0.194095	eval-rmse:0.195566	train-rmspe:0.194095
[174]	train-rmse:0.194424 eval-rmspe:0.193312	eval-rmse:0.194424	train-rmspe:0.193312
[175]	train-rmse:0.193853 eval-rmspe:0.193049	eval-rmse:0.193853	train-rmspe:0.193049
[176]	train-rmse:0.193454 eval-rmspe:0.192983	eval-rmse:0.193454	train-rmspe:0.192983
[177]	train-rmse:0.192618 eval-rmspe:0.192477	eval-rmse:0.192618	train-rmspe:0.192477
[178]	train-rmse:0.191933 eval-rmspe:0.192073	eval-rmse:0.191933	train-rmspe:0.192073
[179]	train-rmse:0.191206 eval-rmspe:0.191618	eval-rmse:0.191206	train-rmspe:0.191618
[180]	train-rmse:0.190188 eval-rmspe:0.190874	eval-rmse:0.190188	train-rmspe:0.190874
[181]	train-rmse:0.189589 eval-rmspe:0.190551	eval-rmse:0.189589	train-rmspe:0.190551
[182]	train-rmse:0.188052 eval-rmspe:0.189244	eval-rmse:0.188052	train-rmspe:0.189244
[183]	train-rmse:0.187257 eval-rmspe:0.188769	eval-rmse:0.187257	train-rmspe:0.188769
[184]	train-rmse:0.186624 eval-rmspe:0.188344	eval-rmse:0.186624	train-rmspe:0.188344
[185]	train-rmse:0.185952 eval-rmspe:0.187945	eval-rmse:0.185952	train-rmspe:0.187945
[186]	train-rmse:0.185307 eval-rmspe:0.187548	eval-rmse:0.185307	train-rmspe:0.187548
[187]	train-rmse:0.184579 eval-rmspe:0.187038	eval-rmse:0.184579	train-rmspe:0.187038
[188]	train-rmse:0.184013 eval-rmspe:0.186684	eval-rmse:0.184013	train-rmspe:0.186684
[189]	train-rmse:0.183363 eval-rmspe:0.186257	eval-rmse:0.183363	train-rmspe:0.186257
[190]	train-rmse:0.182878 eval-rmspe:0.185955	eval-rmse:0.182878	train-rmspe:0.185955
[191]	train-rmse:0.182413 eval-rmspe:0.185676	eval-rmse:0.182413	train-rmspe:0.185676
[192]	train-rmse:0.181885 eval-rmspe:0.185334	eval-rmse:0.181885	train-rmspe:0.185334

[193]	train-rmse:0.181041 eval-rmspe:0.184679	eval-rmse:0.181041	train-rmspe:0.184679
[194]	train-rmse:0.180758 eval-rmspe:0.184575	eval-rmse:0.180758	train-rmspe:0.184575
[195]	train-rmse:0.179827 eval-rmspe:0.183778	eval-rmse:0.179827	train-rmspe:0.183778
[196]	train-rmse:0.179405 eval-rmspe:0.183506	eval-rmse:0.179405	train-rmspe:0.183506
[197]	train-rmse:0.178665 eval-rmspe:0.182932	eval-rmse:0.178665	train-rmspe:0.182932
[198]	train-rmse:0.177574 eval-rmspe:0.181962	eval-rmse:0.177574	train-rmspe:0.181962
[199]	train-rmse:0.177131 eval-rmspe:0.181649	eval-rmse:0.177131	train-rmspe:0.181649
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[205]	train-rmse:0.173561 eval-rmspe:0.17887	eval-rmse:0.173561	train-rmspe:0.17887
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[213]	train-rmse:0.168752 eval-rmspe:0.174697	eval-rmse:0.168752	train-rmspe:0.174697
[214]	train-rmse:0.168139 eval-rmspe:0.174154	eval-rmse:0.168139	train-rmspe:0.174154
[215]	train-rmse:0.167374 eval-rmspe:0.173412	eval-rmse:0.167374	train-rmspe:0.173412
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[219]	train-rmse:0.165299 eval-rmspe:0.171561	eval-rmse:0.165299	train-rmspe:0.171561
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[221]	train-rmse:0.16381 eval-rmspe:0.170138	eval-rmse:0.16381	train-rmspe:0.170138
[222]	train-rmse:0.16337 eval-rmspe:0.169756	eval-rmse:0.16337	train-rmspe:0.169756
[223]	train-rmse:0.16316 eval-rmspe:0.169591	eval-rmse:0.16316	train-rmspe:0.169591
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[227]	train-rmse:0.161835 eval-rmspe:0.168492	eval-rmse:0.161835	train-rmspe:0.168492
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[229]	train-rmse:0.161174 eval-rmspe:0.167888	eval-rmse:0.161174	train-rmspe:0.167888
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[233]	train-rmse:0.159197 eval-rmspe:0.165973	eval-rmse:0.159197	train-rmspe:0.165973
[234]	train-rmse:0.158694 eval-rmspe:0.165525	eval-rmse:0.158694	train-rmspe:0.165525
[235]	train-rmse:0.157759 eval-rmspe:0.164525	eval-rmse:0.157759	train-rmspe:0.164525
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[239]	train-rmse:0.156529 eval-rmspe:0.16342	eval-rmse:0.156529	train-rmspe:0.16342
[240]	train-rmse:0.156307 eval-rmspe:0.163225	eval-rmse:0.156307	train-rmspe:0.163225

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[242]	train-rmse:0.155337	eval-rmse:0.155337	train-rmspe:0.162213
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[243]	train-rmse:0.154758	eval-rmse:0.154758	train-rmspe:0.161632
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[244]	train-rmse:0.154638	eval-rmse:0.154638	train-rmspe:0.16155
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[245]	train-rmse:0.154276	eval-rmse:0.154276	train-rmspe:0.161237
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[246]	train-rmse:0.153961	eval-rmse:0.153961	train-rmspe:0.160978
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[247]	train-rmse:0.153273	eval-rmse:0.153273	train-rmspe:0.160247
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[248]	train-rmse:0.152966	eval-rmse:0.152966	train-rmspe:0.15994
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[249]	train-rmse:0.152669	eval-rmse:0.152669	train-rmspe:0.159657
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[250]	train-rmse:0.152413	eval-rmse:0.152413	train-rmspe:0.159413
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[251]	train-rmse:0.152183	eval-rmse:0.152183	train-rmspe:0.15918
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[252]	train-rmse:0.151756	eval-rmse:0.151756	train-rmspe:0.158741
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[253]	train-rmse:0.151508	eval-rmse:0.151508	train-rmspe:0.15849
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[254]	train-rmse:0.151263	eval-rmse:0.151263	train-rmspe:0.158252
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[258]	train-rmse:0.149429	eval-rmse:0.149429	train-rmspe:0.156331
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[259]	train-rmse:0.148774	eval-rmse:0.148774	train-rmspe:0.155671
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[260]	train-rmse:0.148264	eval-rmse:0.148264	train-rmspe:0.155092
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[262]	train-rmse:0.147624	eval-rmse:0.147624	train-rmspe:0.15451
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[266]	train-rmse:0.145859 eval-rmspe:0.152676	eval-rmse:0.145859	train-rmspe:0.152676
[267]	train-rmse:0.145603 eval-rmspe:0.152421	eval-rmse:0.145603	train-rmspe:0.152421
[268]	train-rmse:0.145081 eval-rmspe:0.15186	eval-rmse:0.145081	train-rmspe:0.15186
[269]	train-rmse:0.144166 eval-rmspe:0.150868	eval-rmse:0.144166	train-rmspe:0.150868
[270]	train-rmse:0.143777 eval-rmspe:0.150468	eval-rmse:0.143777	train-rmspe:0.150468
[271]	train-rmse:0.143351 eval-rmspe:0.150053	eval-rmse:0.143351	train-rmspe:0.150053
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[273]	train-rmse:0.142782 eval-rmspe:0.149482	eval-rmse:0.142782	train-rmspe:0.149482
[274]	train-rmse:0.141914 eval-rmspe:0.148598	eval-rmse:0.141914	train-rmspe:0.148598
[275]	train-rmse:0.141655 eval-rmspe:0.148328	eval-rmse:0.141655	train-rmspe:0.148328
[276]	train-rmse:0.141501 eval-rmspe:0.148169	eval-rmse:0.141501	train-rmspe:0.148169
[277]	train-rmse:0.141166 eval-rmspe:0.147826	eval-rmse:0.141166	train-rmspe:0.147826
[278]	train-rmse:0.140962 eval-rmspe:0.147631	eval-rmse:0.140962	train-rmspe:0.147631
[279]	train-rmse:0.140737 eval-rmspe:0.14741	eval-rmse:0.140737	train-rmspe:0.14741
[280]	train-rmse:0.139999 eval-rmspe:0.146603	eval-rmse:0.139999	train-rmspe:0.146603
[281]	train-rmse:0.139611 eval-rmspe:0.146216	eval-rmse:0.139611	train-rmspe:0.146216
[282]	train-rmse:0.13918 eval-rmspe:0.145772	eval-rmse:0.13918	train-rmspe:0.145772
[283]	train-rmse:0.138954 eval-rmspe:0.145545	eval-rmse:0.138954	train-rmspe:0.145545
[284]	train-rmse:0.138343 eval-rmspe:0.144892	eval-rmse:0.138343	train-rmspe:0.144892
[285]	train-rmse:0.138117 eval-rmspe:0.144668	eval-rmse:0.138117	train-rmspe:0.144668
[286]	train-rmse:0.137955 eval-rmspe:0.144522	eval-rmse:0.137955	train-rmspe:0.144522
[287]	train-rmse:0.137497 eval-rmspe:0.14405	eval-rmse:0.137497	train-rmspe:0.14405
[288]	train-rmse:0.137054 eval-rmspe:0.143602	eval-rmse:0.137054	train-rmspe:0.143602

[289]	train-rmse:0.136788 eval-rmspe:0.143318	eval-rmse:0.136788	train-rmspe:0.143318
[290]	train-rmse:0.136622 eval-rmspe:0.143157	eval-rmse:0.136622	train-rmspe:0.143157
[291]	train-rmse:0.136041 eval-rmspe:0.142515	eval-rmse:0.136041	train-rmspe:0.142515
[292]	train-rmse:0.135644 eval-rmspe:0.142123	eval-rmse:0.135644	train-rmspe:0.142123
[293]	train-rmse:0.135432 eval-rmspe:0.141903	eval-rmse:0.135432	train-rmspe:0.141903
[294]	train-rmse:0.134957 eval-rmspe:0.141392	eval-rmse:0.134957	train-rmspe:0.141392
[295]	train-rmse:0.134854 eval-rmspe:0.141284	eval-rmse:0.134854	train-rmspe:0.141284
[296]	train-rmse:0.134572 eval-rmspe:0.14098	eval-rmse:0.134572	train-rmspe:0.14098
[297]	train-rmse:0.134141 eval-rmspe:0.140527	eval-rmse:0.134141	train-rmspe:0.140527
[298]	train-rmse:0.133625 eval-rmspe:0.140002	eval-rmse:0.133625	train-rmspe:0.140002
[299]	train-rmse:0.133315 eval-rmspe:0.139682	eval-rmse:0.133315	train-rmspe:0.139682
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[303]	train-rmse:0.132566 eval-rmspe:0.13891	eval-rmse:0.132566	train-rmspe:0.13891
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[306]	train-rmse:0.131663 eval-rmspe:0.137928	eval-rmse:0.131663	train-rmspe:0.137928
[307]	train-rmse:0.131003 eval-rmspe:0.137242	eval-rmse:0.131003	train-rmspe:0.137242
[308]	train-rmse:0.130729 eval-rmspe:0.136948	eval-rmse:0.130729	train-rmspe:0.136948
[309]	train-rmse:0.130117 eval-rmspe:0.136293	eval-rmse:0.130117	train-rmspe:0.136293
[310]	train-rmse:0.129684 eval-rmspe:0.135832	eval-rmse:0.129684	train-rmspe:0.135832
[311]	train-rmse:0.129168 eval-rmspe:0.135266	eval-rmse:0.129168	train-rmspe:0.135266
[312]	train-rmse:0.128544 eval-rmspe:0.134604	eval-rmse:0.128544	train-rmspe:0.134604

[313]	train-rmse:0.128338 eval-rmspe:0.134404	eval-rmse:0.128338	train-rmspe:0.134404
[314]	train-rmse:0.127907 eval-rmspe:0.133951	eval-rmse:0.127907	train-rmspe:0.133951
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[316]	train-rmse:0.127312 eval-rmspe:0.133335	eval-rmse:0.127312	train-rmspe:0.133335
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[329]	train-rmse:0.123317 eval-rmspe:0.128954	eval-rmse:0.123317	train-rmspe:0.128954
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[340]	train-rmse:0.120448	eval-rmse:0.120448	train-rmspe:0.125776
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[346]	train-rmse:0.11839	eval-rmse:0.11839	train-rmspe:0.123588
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[347]	train-rmse:0.117748	eval-rmse:0.117748	train-rmspe:0.122797
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[348]	train-rmse:0.117606	eval-rmse:0.117606	train-rmspe:0.122643
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[349]	train-rmse:0.11738	eval-rmse:0.11738	train-rmspe:0.122329
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[358]	train-rmse:0.115482	eval-rmse:0.115482	train-rmspe:0.120304
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[416]	train-rmse:0.102763 eval-rmspe:0.106839	eval-rmse:0.102763	train-rmspe:0.106839
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[532]	train-rmse:0.085464 eval-rmspe:0.088079	eval-rmse:0.085464	train-rmspe:0.088079
[533]	train-rmse:0.085375 eval-rmspe:0.087975	eval-rmse:0.085375	train-rmspe:0.087975
[534]	train-rmse:0.085301 eval-rmspe:0.087891	eval-rmse:0.085301	train-rmspe:0.087891
[535]	train-rmse:0.085229 eval-rmspe:0.087815	eval-rmse:0.085229	train-rmspe:0.087815
[536]	train-rmse:0.085123 eval-rmspe:0.08771	eval-rmse:0.085123	train-rmspe:0.08771
[537]	train-rmse:0.08498 eval-rmspe:0.087559	eval-rmse:0.08498	train-rmspe:0.087559
[538]	train-rmse:0.084859 eval-rmspe:0.087432	eval-rmse:0.084859	train-rmspe:0.087432
[539]	train-rmse:0.084747 eval-rmspe:0.087311	eval-rmse:0.084747	train-rmspe:0.087311
[540]	train-rmse:0.084631 eval-rmspe:0.087183	eval-rmse:0.084631	train-rmspe:0.087183
[541]	train-rmse:0.084413 eval-rmspe:0.086938	eval-rmse:0.084413	train-rmspe:0.086938
[542]	train-rmse:0.084259 eval-rmspe:0.086765	eval-rmse:0.084259	train-rmspe:0.086765
[543]	train-rmse:0.084213 eval-rmspe:0.086717	eval-rmse:0.084213	train-rmspe:0.086717
[544]	train-rmse:0.08412 eval-rmspe:0.086582	eval-rmse:0.08412	train-rmspe:0.086582
[545]	train-rmse:0.083983 eval-rmspe:0.086435	eval-rmse:0.083983	train-rmspe:0.086435
[546]	train-rmse:0.083843 eval-rmspe:0.086288	eval-rmse:0.083843	train-rmspe:0.086288
[547]	train-rmse:0.083669 eval-rmspe:0.086072	eval-rmse:0.083669	train-rmspe:0.086072
[548]	train-rmse:0.08358 eval-rmspe:0.085978	eval-rmse:0.08358	train-rmspe:0.085978
[549]	train-rmse:0.083537 eval-rmspe:0.085936	eval-rmse:0.083537	train-rmspe:0.085936
[550]	train-rmse:0.083414 eval-rmspe:0.085782	eval-rmse:0.083414	train-rmspe:0.085782
[551]	train-rmse:0.083315 eval-rmspe:0.085676	eval-rmse:0.083315	train-rmspe:0.085676
[552]	train-rmse:0.083239 eval-rmspe:0.085575	eval-rmse:0.083239	train-rmspe:0.085575

[553]	train-rmse:0.083117 eval-rmspe:0.085449	eval-rmse:0.083117	train-rmspe:0.085449
[554]	train-rmse:0.083021 eval-rmspe:0.085348	eval-rmse:0.083021	train-rmspe:0.085348
[555]	train-rmse:0.082839 eval-rmspe:0.08515	eval-rmse:0.082839	train-rmspe:0.08515
[556]	train-rmse:0.082668 eval-rmspe:0.084968	eval-rmse:0.082668	train-rmspe:0.084968
[557]	train-rmse:0.082533 eval-rmspe:0.084793	eval-rmse:0.082533	train-rmspe:0.084793
[558]	train-rmse:0.082485 eval-rmspe:0.084741	eval-rmse:0.082485	train-rmspe:0.084741
[559]	train-rmse:0.082401 eval-rmspe:0.084656	eval-rmse:0.082401	train-rmspe:0.084656
[560]	train-rmse:0.082246 eval-rmspe:0.084483	eval-rmse:0.082246	train-rmspe:0.084483
[561]	train-rmse:0.082222 eval-rmspe:0.084459	eval-rmse:0.082222	train-rmspe:0.084459
[562]	train-rmse:0.082145 eval-rmspe:0.084376	eval-rmse:0.082145	train-rmspe:0.084376
[563]	train-rmse:0.08204 eval-rmspe:0.084267	eval-rmse:0.08204	train-rmspe:0.084267
[564]	train-rmse:0.081934 eval-rmspe:0.084123	eval-rmse:0.081934	train-rmspe:0.084123
[565]	train-rmse:0.081805 eval-rmspe:0.083989	eval-rmse:0.081805	train-rmspe:0.083989
[566]	train-rmse:0.081743 eval-rmspe:0.083926	eval-rmse:0.081743	train-rmspe:0.083926
[567]	train-rmse:0.081658 eval-rmspe:0.083808	eval-rmse:0.081658	train-rmspe:0.083808
[568]	train-rmse:0.081558 eval-rmspe:0.083704	eval-rmse:0.081558	train-rmspe:0.083704
[569]	train-rmse:0.081477 eval-rmspe:0.083621	eval-rmse:0.081477	train-rmspe:0.083621
[570]	train-rmse:0.081442 eval-rmspe:0.083584	eval-rmse:0.081442	train-rmspe:0.083584
[571]	train-rmse:0.081227 eval-rmspe:0.083344	eval-rmse:0.081227	train-rmspe:0.083344
[572]	train-rmse:0.081142 eval-rmspe:0.083251	eval-rmse:0.081142	train-rmspe:0.083251
[573]	train-rmse:0.081024 eval-rmspe:0.083129	eval-rmse:0.081024	train-rmspe:0.083129
[574]	train-rmse:0.080909 eval-rmspe:0.083001	eval-rmse:0.080909	train-rmspe:0.083001
[575]	train-rmse:0.080798 eval-rmspe:0.082887	eval-rmse:0.080798	train-rmspe:0.082887
[576]	train-rmse:0.0805 eval-rmspe:0.082559	eval-rmse:0.0805	train-rmspe:0.082559

[577]	train-rmse:0.080454	eval-rmse:0.080454	train-rmspe:0.082506
	eval-rmspe:0.082506		
[578]	train-rmse:0.080355	eval-rmse:0.080355	train-rmspe:0.082405
	eval-rmspe:0.082405		
[579]	train-rmse:0.080273	eval-rmse:0.080273	train-rmspe:0.082317
	eval-rmspe:0.082317		
[580]	train-rmse:0.080068	eval-rmse:0.080068	train-rmspe:0.082079
	eval-rmspe:0.082079		
[581]	train-rmse:0.079916	eval-rmse:0.079916	train-rmspe:0.081894
	eval-rmspe:0.081894		
[582]	train-rmse:0.079747	eval-rmse:0.079747	train-rmspe:0.081705
	eval-rmspe:0.081705		
[583]	train-rmse:0.079514	eval-rmse:0.079514	train-rmspe:0.081458
	eval-rmspe:0.081458		
[584]	train-rmse:0.079397	eval-rmse:0.079397	train-rmspe:0.081334
	eval-rmspe:0.081334		
[585]	train-rmse:0.079265	eval-rmse:0.079265	train-rmspe:0.081199
	eval-rmspe:0.081199		
[586]	train-rmse:0.079153	eval-rmse:0.079153	train-rmspe:0.081074
	eval-rmspe:0.081074		
[587]	train-rmse:0.079106	eval-rmse:0.079106	train-rmspe:0.081027
	eval-rmspe:0.081027		
[588]	train-rmse:0.078993	eval-rmse:0.078993	train-rmspe:0.0809
	eval-rmspe:0.0809		
[589]	train-rmse:0.078904	eval-rmse:0.078904	train-rmspe:0.080805
	eval-rmspe:0.080805		
[590]	train-rmse:0.078779	eval-rmse:0.078779	train-rmspe:0.080656
	eval-rmspe:0.080656		
[591]	train-rmse:0.078663	eval-rmse:0.078663	train-rmspe:0.080538
	eval-rmspe:0.080538		
[592]	train-rmse:0.078573	eval-rmse:0.078573	train-rmspe:0.080442
	eval-rmspe:0.080442		
[593]	train-rmse:0.078489	eval-rmse:0.078489	train-rmspe:0.080352
	eval-rmspe:0.080352		
[594]	train-rmse:0.078365	eval-rmse:0.078365	train-rmspe:0.080217
	eval-rmspe:0.080217		
[595]	train-rmse:0.078265	eval-rmse:0.078265	train-rmspe:0.080113
	eval-rmspe:0.080113		
[596]	train-rmse:0.078243	eval-rmse:0.078243	train-rmspe:0.080087
	eval-rmspe:0.080087		
[597]	train-rmse:0.078209	eval-rmse:0.078209	train-rmspe:0.080053
	eval-rmspe:0.080053		
[598]	train-rmse:0.078135	eval-rmse:0.078135	train-rmspe:0.079975
	eval-rmspe:0.079975		
[599]	train-rmse:0.078043	eval-rmse:0.078043	train-rmspe:0.079879
	eval-rmspe:0.079879		
	round 1 end		
	round 2:		

[0] train-rmse:8.02739 eval-rmse:8.02739 train-rmspe:0.99981
eval-rmspe:0.99981

Multiple eval metrics have been passed: 'eval-rmspe' will be used for early
stopping.

Will train until eval-rmspe hasn't improved in 100 rounds.

[1]	train-rmse:7.7871	eval-rmse:7.7871	train-rmspe:0.999713
	eval-rmspe:0.999713		
[2]	train-rmse:7.55398	eval-rmse:7.55398	train-rmspe:0.999593
	eval-rmspe:0.999593		
[3]	train-rmse:7.3279	eval-rmse:7.3279	train-rmspe:0.999448
	eval-rmspe:0.999448		
[4]	train-rmse:7.10866	eval-rmse:7.10866	train-rmspe:0.999271
	eval-rmspe:0.999271		
[5]	train-rmse:6.89598	eval-rmse:6.89598	train-rmspe:0.999059
	eval-rmspe:0.999059		
[6]	train-rmse:6.68976	eval-rmse:6.68976	train-rmspe:0.998805
	eval-rmspe:0.998805		
[7]	train-rmse:6.4897	eval-rmse:6.4897	train-rmspe:0.998504
	eval-rmspe:0.998504		
[8]	train-rmse:6.29562	eval-rmse:6.29562	train-rmspe:0.998149
	eval-rmspe:0.998149		
[9]	train-rmse:6.10742	eval-rmse:6.10742	train-rmspe:0.997731
	eval-rmspe:0.997731		
[10]	train-rmse:5.92486	eval-rmse:5.92486	train-rmspe:0.997244
	eval-rmspe:0.997244		
[11]	train-rmse:5.74778	eval-rmse:5.74778	train-rmspe:0.996679
	eval-rmspe:0.996679		
[12]	train-rmse:5.57606	eval-rmse:5.57606	train-rmspe:0.996027
	eval-rmspe:0.996027		
[13]	train-rmse:5.40952	eval-rmse:5.40952	train-rmspe:0.995279
	eval-rmspe:0.995279		
[14]	train-rmse:5.24793	eval-rmse:5.24793	train-rmspe:0.994423
	eval-rmspe:0.994423		
[15]	train-rmse:5.09122	eval-rmse:5.09122	train-rmspe:0.99345
	eval-rmspe:0.99345		
[16]	train-rmse:4.93929	eval-rmse:4.93929	train-rmspe:0.992351
	eval-rmspe:0.992351		
[17]	train-rmse:4.79189	eval-rmse:4.79189	train-rmspe:0.991114
	eval-rmspe:0.991114		
[18]	train-rmse:4.64895	eval-rmse:4.64895	train-rmspe:0.989728
	eval-rmspe:0.989728		
[19]	train-rmse:4.51032	eval-rmse:4.51032	train-rmspe:0.988182
	eval-rmspe:0.988182		
[20]	train-rmse:4.37587	eval-rmse:4.37587	train-rmspe:0.986463
	eval-rmspe:0.986463		
[21]	train-rmse:4.2455	eval-rmse:4.2455	train-rmspe:0.984559
	eval-rmspe:0.984559		

[22]	train-rmse:4.11903 eval-rmspe:0.982463	eval-rmse:4.11903	train-rmspe:0.982463
[23]	train-rmse:3.99639 eval-rmspe:0.980159	eval-rmse:3.99639	train-rmspe:0.980159
[24]	train-rmse:3.87742 eval-rmspe:0.977643	eval-rmse:3.87742	train-rmspe:0.977643
[25]	train-rmse:3.76207 eval-rmspe:0.974903	eval-rmse:3.76207	train-rmspe:0.974903
[26]	train-rmse:3.65017 eval-rmspe:0.971927	eval-rmse:3.65017	train-rmspe:0.971927
[27]	train-rmse:3.54166 eval-rmspe:0.968702	eval-rmse:3.54166	train-rmspe:0.968702
[28]	train-rmse:3.43647 eval-rmspe:0.965218	eval-rmse:3.43647	train-rmspe:0.965218
[29]	train-rmse:3.3344 eval-rmspe:0.961484	eval-rmse:3.3344	train-rmspe:0.961484
[30]	train-rmse:3.23543 eval-rmspe:0.957482	eval-rmse:3.23543	train-rmspe:0.957482
[31]	train-rmse:3.13952 eval-rmspe:0.953192	eval-rmse:3.13952	train-rmspe:0.953192
[32]	train-rmse:3.04646 eval-rmspe:0.948633	eval-rmse:3.04646	train-rmspe:0.948633
[33]	train-rmse:2.95617 eval-rmspe:0.943797	eval-rmse:2.95617	train-rmspe:0.943797
[34]	train-rmse:2.86867 eval-rmspe:0.938659	eval-rmse:2.86867	train-rmspe:0.938659
[35]	train-rmse:2.78381 eval-rmspe:0.933248	eval-rmse:2.78381	train-rmspe:0.933248
[36]	train-rmse:2.70153 eval-rmspe:0.927538	eval-rmse:2.70153	train-rmspe:0.927538
[37]	train-rmse:2.62175 eval-rmspe:0.92154	eval-rmse:2.62175	train-rmspe:0.92154
[38]	train-rmse:2.54436 eval-rmspe:0.915269	eval-rmse:2.54436	train-rmspe:0.915269
[39]	train-rmse:2.46939 eval-rmspe:0.908692	eval-rmse:2.46939	train-rmspe:0.908692
[40]	train-rmse:2.39669 eval-rmspe:0.901819	eval-rmse:2.39669	train-rmspe:0.901819
[41]	train-rmse:2.3262 eval-rmspe:0.894686	eval-rmse:2.3262	train-rmspe:0.894686
[42]	train-rmse:2.25777 eval-rmspe:0.887305	eval-rmse:2.25777	train-rmspe:0.887305
[43]	train-rmse:2.19147 eval-rmspe:0.879617	eval-rmse:2.19147	train-rmspe:0.879617
[44]	train-rmse:2.12711 eval-rmspe:0.871736	eval-rmse:2.12711	train-rmspe:0.871736
[45]	train-rmse:2.06475 eval-rmspe:0.863559	eval-rmse:2.06475	train-rmspe:0.863559

[46]	train-rmse:2.00422	eval-rmse:2.00422	train-rmspe:0.855171
	eval-rmspe:0.855171		
[47]	train-rmse:1.94566	eval-rmse:1.94566	train-rmspe:0.846485
	eval-rmspe:0.846485		
[48]	train-rmse:1.88889	eval-rmse:1.88889	train-rmspe:0.83758
	eval-rmspe:0.83758		
[49]	train-rmse:1.8336	eval-rmse:1.8336	train-rmspe:0.828568
	eval-rmspe:0.828568		
[50]	train-rmse:1.78015	eval-rmse:1.78015	train-rmspe:0.819299
	eval-rmspe:0.819299		
[51]	train-rmse:1.72833	eval-rmse:1.72833	train-rmspe:0.809822
	eval-rmspe:0.809822		
[52]	train-rmse:1.67811	eval-rmse:1.67811	train-rmspe:0.800161
	eval-rmspe:0.800161		
[53]	train-rmse:1.62928	eval-rmse:1.62928	train-rmspe:0.790388
	eval-rmspe:0.790388		
[54]	train-rmse:1.58204	eval-rmse:1.58204	train-rmspe:0.780407
	eval-rmspe:0.780407		
[55]	train-rmse:1.53616	eval-rmse:1.53616	train-rmspe:0.770335
	eval-rmspe:0.770335		
[56]	train-rmse:1.49178	eval-rmse:1.49178	train-rmspe:0.760082
	eval-rmspe:0.760082		
[57]	train-rmse:1.44885	eval-rmse:1.44885	train-rmspe:0.749682
	eval-rmspe:0.749682		
[58]	train-rmse:1.40721	eval-rmse:1.40721	train-rmspe:0.739202
	eval-rmspe:0.739202		
[59]	train-rmse:1.36685	eval-rmse:1.36685	train-rmspe:0.728603
	eval-rmspe:0.728603		
[60]	train-rmse:1.32777	eval-rmse:1.32777	train-rmspe:0.717917
	eval-rmspe:0.717917		
[61]	train-rmse:1.28987	eval-rmse:1.28987	train-rmspe:0.7072
	eval-rmspe:0.7072		
[62]	train-rmse:1.25278	eval-rmse:1.25278	train-rmspe:0.69653
	eval-rmspe:0.69653		
[63]	train-rmse:1.21685	eval-rmse:1.21685	train-rmspe:0.685822
	eval-rmspe:0.685822		
[64]	train-rmse:1.18236	eval-rmse:1.18236	train-rmspe:0.674984
	eval-rmspe:0.674984		
[65]	train-rmse:1.14907	eval-rmse:1.14907	train-rmspe:0.664103
	eval-rmspe:0.664103		
[66]	train-rmse:1.11663	eval-rmse:1.11663	train-rmspe:0.653269
	eval-rmspe:0.653269		
[67]	train-rmse:1.08525	eval-rmse:1.08525	train-rmspe:0.642433
	eval-rmspe:0.642433		
[68]	train-rmse:1.05484	eval-rmse:1.05484	train-rmspe:0.63163
	eval-rmspe:0.63163		
[69]	train-rmse:1.02549	eval-rmse:1.02549	train-rmspe:0.620868
	eval-rmspe:0.620868		

[70]	train-rmse:0.996614 eval-rmspe:0.610229	eval-rmse:0.996614	train-rmspe:0.610229
[71]	train-rmse:0.968902 eval-rmspe:0.5996	eval-rmse:0.968902	train-rmspe:0.5996
[72]	train-rmse:0.942146 eval-rmspe:0.58901	eval-rmse:0.942146	train-rmspe:0.58901
[73]	train-rmse:0.916159 eval-rmspe:0.578537	eval-rmse:0.916159	train-rmspe:0.578537
[74]	train-rmse:0.891074 eval-rmspe:0.568108	eval-rmse:0.891074	train-rmspe:0.568108
[75]	train-rmse:0.866723 eval-rmspe:0.557787	eval-rmse:0.866723	train-rmspe:0.557787
[76]	train-rmse:0.843327 eval-rmspe:0.547556	eval-rmse:0.843327	train-rmspe:0.547556
[77]	train-rmse:0.820705 eval-rmspe:0.537444	eval-rmse:0.820705	train-rmspe:0.537444
[78]	train-rmse:0.798699 eval-rmspe:0.527454	eval-rmse:0.798699	train-rmspe:0.527454
[79]	train-rmse:0.777395 eval-rmspe:0.517611	eval-rmse:0.777395	train-rmspe:0.517611
[80]	train-rmse:0.756428 eval-rmspe:0.507894	eval-rmse:0.756428	train-rmspe:0.507894
[81]	train-rmse:0.736029 eval-rmspe:0.498306	eval-rmse:0.736029	train-rmspe:0.498306
[82]	train-rmse:0.716604 eval-rmspe:0.488884	eval-rmse:0.716604	train-rmspe:0.488884
[83]	train-rmse:0.69791 eval-rmspe:0.479615	eval-rmse:0.69791	train-rmspe:0.479615
[84]	train-rmse:0.67989 eval-rmspe:0.470537	eval-rmse:0.67989	train-rmspe:0.470537
[85]	train-rmse:0.662306 eval-rmspe:0.461553	eval-rmse:0.662306	train-rmspe:0.461553
[86]	train-rmse:0.645498 eval-rmspe:0.45278	eval-rmse:0.645498	train-rmspe:0.45278
[87]	train-rmse:0.62908 eval-rmspe:0.444183	eval-rmse:0.62908	train-rmspe:0.444183
[88]	train-rmse:0.612993 eval-rmspe:0.43567	eval-rmse:0.612993	train-rmspe:0.43567
[89]	train-rmse:0.597711 eval-rmspe:0.427412	eval-rmse:0.597711	train-rmspe:0.427412
[90]	train-rmse:0.583125 eval-rmspe:0.419398	eval-rmse:0.583125	train-rmspe:0.419398
[91]	train-rmse:0.568637 eval-rmspe:0.411467	eval-rmse:0.568637	train-rmspe:0.411467
[92]	train-rmse:0.554653 eval-rmspe:0.403714	eval-rmse:0.554653	train-rmspe:0.403714
[93]	train-rmse:0.540876 eval-rmspe:0.396032	eval-rmse:0.540876	train-rmspe:0.396032

[94]	train-rmse:0.528034 eval-rmspe:0.388703	eval-rmse:0.528034	train-rmspe:0.388703
[95]	train-rmse:0.515631 eval-rmspe:0.381572	eval-rmse:0.515631	train-rmspe:0.381572
[96]	train-rmse:0.503625 eval-rmspe:0.374626	eval-rmse:0.503625	train-rmspe:0.374626
[97]	train-rmse:0.491914 eval-rmspe:0.367798	eval-rmse:0.491914	train-rmspe:0.367798
[98]	train-rmse:0.480638 eval-rmspe:0.361206	eval-rmse:0.480638	train-rmspe:0.361206
[99]	train-rmse:0.469743 eval-rmspe:0.354818	eval-rmse:0.469743	train-rmspe:0.354818
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[101]	train-rmse:0.449277 eval-rmspe:0.342618	eval-rmse:0.449277	train-rmspe:0.342618
[102]	train-rmse:0.439593 eval-rmspe:0.336799	eval-rmse:0.439593	train-rmspe:0.336799
[103]	train-rmse:0.430301 eval-rmspe:0.331188	eval-rmse:0.430301	train-rmspe:0.331188
[104]	train-rmse:0.421145 eval-rmspe:0.325675	eval-rmse:0.421145	train-rmspe:0.325675
[105]	train-rmse:0.412361 eval-rmspe:0.320352	eval-rmse:0.412361	train-rmspe:0.320352
[106]	train-rmse:0.403909 eval-rmspe:0.315187	eval-rmse:0.403909	train-rmspe:0.315187
[107]	train-rmse:0.395924 eval-rmspe:0.310314	eval-rmse:0.395924	train-rmspe:0.310314
[108]	train-rmse:0.388046 eval-rmspe:0.305542	eval-rmse:0.388046	train-rmspe:0.305542
[109]	train-rmse:0.380426 eval-rmspe:0.300918	eval-rmse:0.380426	train-rmspe:0.300918
[110]	train-rmse:0.373041 eval-rmspe:0.296387	eval-rmse:0.373041	train-rmspe:0.296387
[111]	train-rmse:0.366064 eval-rmspe:0.292155	eval-rmse:0.366064	train-rmspe:0.292155
[112]	train-rmse:0.359063 eval-rmspe:0.287867	eval-rmse:0.359063	train-rmspe:0.287867
[113]	train-rmse:0.352421 eval-rmspe:0.283779	eval-rmse:0.352421	train-rmspe:0.283779
[114]	train-rmse:0.346391 eval-rmspe:0.280124	eval-rmse:0.346391	train-rmspe:0.280124
[115]	train-rmse:0.340482 eval-rmspe:0.27655	eval-rmse:0.340482	train-rmspe:0.27655
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[125]	train-rmse:0.291082	eval-rmse:0.291082	train-rmspe:0.247175
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[126]	train-rmse:0.287238	eval-rmse:0.287238	train-rmspe:0.244969
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[127]	train-rmse:0.283581	eval-rmse:0.283581	train-rmspe:0.24293
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[129]	train-rmse:0.276389	eval-rmse:0.276389	train-rmspe:0.238973
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[134]	train-rmse:0.260065	eval-rmse:0.260065	train-rmspe:0.229754
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[136]	train-rmse:0.253641	eval-rmse:0.253641	train-rmspe:0.225975
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[141]	train-rmse:0.24217	eval-rmse:0.24217	train-rmspe:0.220058
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[144]	train-rmse:0.236316 eval-rmspe:0.217185	eval-rmse:0.236316	train-rmspe:0.217185
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[165]	train-rmse:0.206401 eval-rmspe:0.201934	eval-rmse:0.206401	train-rmspe:0.201934

[166]	train-rmse:0.205282 eval-rmspe:0.201276	eval-rmse:0.205282	train-rmspe:0.201276
[167]	train-rmse:0.204093 eval-rmspe:0.200539	eval-rmse:0.204093	train-rmspe:0.200539
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eval-rmspe:0.080725
[599]   train-rmse:0.078527   eval-rmse:0.078527   train-rmspe:0.080602
eval-rmspe:0.080602
round 2 end
round 3:
[0]     train-rmse:8.02733   eval-rmse:8.02733   train-rmspe:0.999811
eval-rmspe:0.999811
Multiple eval metrics have been passed: 'eval-rmspe' will be used for early
stopping.

```

Will train until eval-rmspe hasn't improved in 100 rounds.

```

[1]     train-rmse:7.78703   eval-rmse:7.78703   train-rmspe:0.999713
eval-rmspe:0.999713
[2]     train-rmse:7.55401   eval-rmse:7.55401   train-rmspe:0.999594
eval-rmspe:0.999594
[3]     train-rmse:7.32792   eval-rmse:7.32792   train-rmspe:0.999448
eval-rmspe:0.999448
[4]     train-rmse:7.10867   eval-rmse:7.10867   train-rmspe:0.999272
eval-rmspe:0.999272
[5]     train-rmse:6.896     eval-rmse:6.896     train-rmspe:0.99906   eval-
rmspe:0.99906
[6]     train-rmse:6.68973   eval-rmse:6.68973   train-rmspe:0.998806
eval-rmspe:0.998806
[7]     train-rmse:6.48967   eval-rmse:6.48967   train-rmspe:0.998505
eval-rmspe:0.998505
[8]     train-rmse:6.29563   eval-rmse:6.29563   train-rmspe:0.99815
eval-rmspe:0.99815
[9]     train-rmse:6.10739   eval-rmse:6.10739   train-rmspe:0.997733
eval-rmspe:0.997733
[10]    train-rmse:5.92483   eval-rmse:5.92483   train-rmspe:0.997246
eval-rmspe:0.997246
[11]    train-rmse:5.74775   eval-rmse:5.74775   train-rmspe:0.996682
eval-rmspe:0.996682
[12]    train-rmse:5.57601   eval-rmse:5.57601   train-rmspe:0.996031
eval-rmspe:0.996031
[13]    train-rmse:5.40948   eval-rmse:5.40948   train-rmspe:0.995283
eval-rmspe:0.995283
[14]    train-rmse:5.24793   eval-rmse:5.24793   train-rmspe:0.994429
eval-rmspe:0.994429
[15]    train-rmse:5.09128   eval-rmse:5.09128   train-rmspe:0.993457
eval-rmspe:0.993457
[16]    train-rmse:4.9393    eval-rmse:4.9393    train-rmspe:0.99236
eval-rmspe:0.99236
[17]    train-rmse:4.79194   eval-rmse:4.79194   train-rmspe:0.991125
eval-rmspe:0.991125
[18]    train-rmse:4.64902   eval-rmse:4.64902   train-rmspe:0.989741
eval-rmspe:0.989741

```

[19]	train-rmse:4.51035 eval-rmspe:0.988193	eval-rmse:4.51035	train-rmspe:0.988193
[20]	train-rmse:4.37595 eval-rmspe:0.986474	eval-rmse:4.37595	train-rmspe:0.986474
[21]	train-rmse:4.24554 eval-rmspe:0.98457	eval-rmse:4.24554	train-rmspe:0.98457
[22]	train-rmse:4.11908 eval-rmspe:0.982471	eval-rmse:4.11908	train-rmspe:0.982471
[23]	train-rmse:3.99642 eval-rmspe:0.980172	eval-rmse:3.99642	train-rmspe:0.980172
[24]	train-rmse:3.8775 eval-rmspe:0.97765	eval-rmse:3.8775	train-rmspe:0.97765
[25]	train-rmse:3.76221 eval-rmspe:0.974903	eval-rmse:3.76221	train-rmspe:0.974903
[26]	train-rmse:3.65031 eval-rmspe:0.971924	eval-rmse:3.65031	train-rmspe:0.971924
[27]	train-rmse:3.54182 eval-rmspe:0.968699	eval-rmse:3.54182	train-rmspe:0.968699
[28]	train-rmse:3.4366 eval-rmspe:0.96522	eval-rmse:3.4366	train-rmspe:0.96522
[29]	train-rmse:3.33454 eval-rmspe:0.961487	eval-rmse:3.33454	train-rmspe:0.961487
[30]	train-rmse:3.2356 eval-rmspe:0.957485	eval-rmse:3.2356	train-rmspe:0.957485
[31]	train-rmse:3.13967 eval-rmspe:0.953194	eval-rmse:3.13967	train-rmspe:0.953194
[32]	train-rmse:3.04662 eval-rmspe:0.948624	eval-rmse:3.04662	train-rmspe:0.948624
[33]	train-rmse:2.95642 eval-rmspe:0.943776	eval-rmse:2.95642	train-rmspe:0.943776
[34]	train-rmse:2.86893 eval-rmspe:0.938636	eval-rmse:2.86893	train-rmspe:0.938636
[35]	train-rmse:2.78411 eval-rmspe:0.933228	eval-rmse:2.78411	train-rmspe:0.933228
[36]	train-rmse:2.70182 eval-rmspe:0.927517	eval-rmse:2.70182	train-rmspe:0.927517
[37]	train-rmse:2.62203 eval-rmspe:0.921531	eval-rmse:2.62203	train-rmspe:0.921531
[38]	train-rmse:2.54464 eval-rmspe:0.91524	eval-rmse:2.54464	train-rmspe:0.91524
[39]	train-rmse:2.46963 eval-rmspe:0.908674	eval-rmse:2.46963	train-rmspe:0.908674
[40]	train-rmse:2.39689 eval-rmspe:0.901829	eval-rmse:2.39689	train-rmspe:0.901829
[41]	train-rmse:2.32634 eval-rmspe:0.894729	eval-rmse:2.32634	train-rmspe:0.894729
[42]	train-rmse:2.25794 eval-rmspe:0.887331	eval-rmse:2.25794	train-rmspe:0.887331

[43]	train-rmse:2.19167 eval-rmspe:0.879644	eval-rmse:2.19167	train-rmspe:0.879644
[44]	train-rmse:2.12739 eval-rmspe:0.871727	eval-rmse:2.12739	train-rmspe:0.871727
[45]	train-rmse:2.06504 eval-rmspe:0.863568	eval-rmse:2.06504	train-rmspe:0.863568
[46]	train-rmse:2.00465 eval-rmspe:0.855116	eval-rmse:2.00465	train-rmspe:0.855116
[47]	train-rmse:1.94598 eval-rmspe:0.846485	eval-rmse:1.94598	train-rmspe:0.846485
[48]	train-rmse:1.88913 eval-rmspe:0.837608	eval-rmse:1.88913	train-rmspe:0.837608
[49]	train-rmse:1.83408 eval-rmspe:0.828505	eval-rmse:1.83408	train-rmspe:0.828505
[50]	train-rmse:1.78063 eval-rmspe:0.819219	eval-rmse:1.78063	train-rmspe:0.819219
[51]	train-rmse:1.72877 eval-rmspe:0.809755	eval-rmse:1.72877	train-rmspe:0.809755
[52]	train-rmse:1.67854 eval-rmspe:0.80011	eval-rmse:1.67854	train-rmspe:0.80011
[53]	train-rmse:1.6298 eval-rmspe:0.790308	eval-rmse:1.6298	train-rmspe:0.790308
[54]	train-rmse:1.58251 eval-rmspe:0.780379	eval-rmse:1.58251	train-rmspe:0.780379
[55]	train-rmse:1.53682 eval-rmspe:0.77021	eval-rmse:1.53682	train-rmspe:0.77021
[56]	train-rmse:1.49259 eval-rmspe:0.759898	eval-rmse:1.49259	train-rmspe:0.759898
[57]	train-rmse:1.44955 eval-rmspe:0.749576	eval-rmse:1.44955	train-rmspe:0.749576
[58]	train-rmse:1.4079 eval-rmspe:0.739093	eval-rmse:1.4079	train-rmspe:0.739093
[59]	train-rmse:1.36744 eval-rmspe:0.728559	eval-rmse:1.36744	train-rmspe:0.728559
[60]	train-rmse:1.32843 eval-rmspe:0.717867	eval-rmse:1.32843	train-rmspe:0.717867
[61]	train-rmse:1.29058 eval-rmspe:0.707165	eval-rmse:1.29058	train-rmspe:0.707165
[62]	train-rmse:1.25371 eval-rmspe:0.696457	eval-rmse:1.25371	train-rmspe:0.696457
[63]	train-rmse:1.21823 eval-rmspe:0.685621	eval-rmse:1.21823	train-rmspe:0.685621
[64]	train-rmse:1.1837 eval-rmspe:0.674838	eval-rmse:1.1837	train-rmspe:0.674838
[65]	train-rmse:1.15029 eval-rmspe:0.664	eval-rmse:1.15029	train-rmspe:0.664
[66]	train-rmse:1.11776 eval-rmspe:0.653208	eval-rmse:1.11776	train-rmspe:0.653208

[67]	train-rmse:1.08625 eval-rmspe:0.642447	eval-rmse:1.08625	train-rmspe:0.642447
[68]	train-rmse:1.05594 eval-rmspe:0.631625	eval-rmse:1.05594	train-rmspe:0.631625
[69]	train-rmse:1.0262 eval-rmspe:0.620929	eval-rmse:1.0262	train-rmspe:0.620929
[70]	train-rmse:0.99771 eval-rmspe:0.610207	eval-rmse:0.99771	train-rmspe:0.610207
[71]	train-rmse:0.970088 eval-rmspe:0.599563	eval-rmse:0.970088	train-rmspe:0.599563
[72]	train-rmse:0.943207 eval-rmspe:0.589004	eval-rmse:0.943207	train-rmspe:0.589004
[73]	train-rmse:0.917461 eval-rmspe:0.578474	eval-rmse:0.917461	train-rmspe:0.578474
[74]	train-rmse:0.892274 eval-rmspe:0.568039	eval-rmse:0.892274	train-rmspe:0.568039
[75]	train-rmse:0.867852 eval-rmspe:0.557756	eval-rmse:0.867852	train-rmspe:0.557756
[76]	train-rmse:0.844451 eval-rmspe:0.547542	eval-rmse:0.844451	train-rmspe:0.547542
[77]	train-rmse:0.821682 eval-rmspe:0.537461	eval-rmse:0.821682	train-rmspe:0.537461
[78]	train-rmse:0.799586 eval-rmspe:0.527512	eval-rmse:0.799586	train-rmspe:0.527512
[79]	train-rmse:0.778367 eval-rmspe:0.517687	eval-rmse:0.778367	train-rmspe:0.517687
[80]	train-rmse:0.757305 eval-rmspe:0.507964	eval-rmse:0.757305	train-rmspe:0.507964
[81]	train-rmse:0.73739 eval-rmspe:0.498416	eval-rmse:0.73739	train-rmspe:0.498416
[82]	train-rmse:0.718165 eval-rmspe:0.488996	eval-rmse:0.718165	train-rmspe:0.488996
[83]	train-rmse:0.699291 eval-rmspe:0.479745	eval-rmse:0.699291	train-rmspe:0.479745
[84]	train-rmse:0.681428 eval-rmspe:0.470687	eval-rmse:0.681428	train-rmspe:0.470687
[85]	train-rmse:0.66375 eval-rmspe:0.461711	eval-rmse:0.66375	train-rmspe:0.461711
[86]	train-rmse:0.646807 eval-rmspe:0.452949	eval-rmse:0.646807	train-rmspe:0.452949
[87]	train-rmse:0.630651 eval-rmspe:0.444408	eval-rmse:0.630651	train-rmspe:0.444408
[88]	train-rmse:0.614944 eval-rmspe:0.436043	eval-rmse:0.614944	train-rmspe:0.436043
[89]	train-rmse:0.599796 eval-rmspe:0.427851	eval-rmse:0.599796	train-rmspe:0.427851
[90]	train-rmse:0.585091 eval-rmspe:0.419831	eval-rmse:0.585091	train-rmspe:0.419831

[91]	train-rmse:0.570794 eval-rmspe:0.412006	eval-rmse:0.570794	train-rmspe:0.412006
[92]	train-rmse:0.557024 eval-rmspe:0.404351	eval-rmse:0.557024	train-rmspe:0.404351
[93]	train-rmse:0.543673 eval-rmspe:0.396856	eval-rmse:0.543673	train-rmspe:0.396856
[94]	train-rmse:0.530887 eval-rmspe:0.38961	eval-rmse:0.530887	train-rmspe:0.38961
[95]	train-rmse:0.518471 eval-rmspe:0.382499	eval-rmse:0.518471	train-rmspe:0.382499
[96]	train-rmse:0.506484 eval-rmspe:0.3756	eval-rmse:0.506484	train-rmspe:0.3756
[97]	train-rmse:0.494446 eval-rmspe:0.368688	eval-rmse:0.494446	train-rmspe:0.368688
[98]	train-rmse:0.483276 eval-rmspe:0.362191	eval-rmse:0.483276	train-rmspe:0.362191
[99]	train-rmse:0.472425 eval-rmspe:0.355835	eval-rmse:0.472425	train-rmspe:0.355835
[100]	train-rmse:0.461932 eval-rmspe:0.349675	eval-rmse:0.461932	train-rmspe:0.349675
[101]	train-rmse:0.451941 eval-rmspe:0.343771	eval-rmse:0.451941	train-rmspe:0.343771
[102]	train-rmse:0.442144 eval-rmspe:0.337959	eval-rmse:0.442144	train-rmspe:0.337959
[103]	train-rmse:0.432655 eval-rmspe:0.332299	eval-rmse:0.432655	train-rmspe:0.332299
[104]	train-rmse:0.423699 eval-rmspe:0.326922	eval-rmse:0.423699	train-rmspe:0.326922
[105]	train-rmse:0.41523 eval-rmspe:0.321847	eval-rmse:0.41523	train-rmspe:0.321847
[106]	train-rmse:0.406666 eval-rmspe:0.316745	eval-rmse:0.406666	train-rmspe:0.316745
[107]	train-rmse:0.39855 eval-rmspe:0.311852	eval-rmse:0.39855	train-rmspe:0.311852
[108]	train-rmse:0.390685 eval-rmspe:0.307097	eval-rmse:0.390685	train-rmspe:0.307097
[109]	train-rmse:0.383249 eval-rmspe:0.302612	eval-rmse:0.383249	train-rmspe:0.302612
[110]	train-rmse:0.375958 eval-rmspe:0.298211	eval-rmse:0.375958	train-rmspe:0.298211
[111]	train-rmse:0.369058 eval-rmspe:0.294073	eval-rmse:0.369058	train-rmspe:0.294073
[112]	train-rmse:0.362567 eval-rmspe:0.290167	eval-rmse:0.362567	train-rmspe:0.290167
[113]	train-rmse:0.356033 eval-rmspe:0.286219	eval-rmse:0.356033	train-rmspe:0.286219
[114]	train-rmse:0.350007 eval-rmspe:0.282676	eval-rmse:0.350007	train-rmspe:0.282676

[115]	train-rmse:0.344123 eval-rmspe:0.279164	eval-rmse:0.344123	train-rmspe:0.279164
[116]	train-rmse:0.338472 eval-rmspe:0.275754	eval-rmse:0.338472	train-rmspe:0.275754
[117]	train-rmse:0.332498 eval-rmspe:0.272161	eval-rmse:0.332498	train-rmspe:0.272161
[118]	train-rmse:0.32727 eval-rmspe:0.269101	eval-rmse:0.32727	train-rmspe:0.269101
[119]	train-rmse:0.322235 eval-rmspe:0.266143	eval-rmse:0.322235	train-rmspe:0.266143
[120]	train-rmse:0.317287 eval-rmspe:0.263264	eval-rmse:0.317287	train-rmspe:0.263264
[121]	train-rmse:0.312738 eval-rmspe:0.260678	eval-rmse:0.312738	train-rmspe:0.260678
[122]	train-rmse:0.3081 eval-rmspe:0.258031	eval-rmse:0.3081	train-rmspe:0.258031
[123]	train-rmse:0.303827 eval-rmspe:0.255669	eval-rmse:0.303827	train-rmspe:0.255669
[124]	train-rmse:0.299406 eval-rmspe:0.253084	eval-rmse:0.299406	train-rmspe:0.253084
[125]	train-rmse:0.295481 eval-rmspe:0.250901	eval-rmse:0.295481	train-rmspe:0.250901
[126]	train-rmse:0.291687 eval-rmspe:0.24877	eval-rmse:0.291687	train-rmspe:0.24877
[127]	train-rmse:0.28787 eval-rmspe:0.246598	eval-rmse:0.28787	train-rmspe:0.246598
[128]	train-rmse:0.283957 eval-rmspe:0.244244	eval-rmse:0.283957	train-rmspe:0.244244
[129]	train-rmse:0.280523 eval-rmspe:0.242372	eval-rmse:0.280523	train-rmspe:0.242372
[130]	train-rmse:0.277047 eval-rmspe:0.240448	eval-rmse:0.277047	train-rmspe:0.240448
[131]	train-rmse:0.27393 eval-rmspe:0.238796	eval-rmse:0.27393	train-rmspe:0.238796
[132]	train-rmse:0.270893 eval-rmspe:0.237213	eval-rmse:0.270893	train-rmspe:0.237213
[133]	train-rmse:0.268111 eval-rmspe:0.23579	eval-rmse:0.268111	train-rmspe:0.23579
[134]	train-rmse:0.264776 eval-rmspe:0.233889	eval-rmse:0.264776	train-rmspe:0.233889
[135]	train-rmse:0.261878 eval-rmspe:0.232241	eval-rmse:0.261878	train-rmspe:0.232241
[136]	train-rmse:0.259165 eval-rmspe:0.230847	eval-rmse:0.259165	train-rmspe:0.230847
[137]	train-rmse:0.256934 eval-rmspe:0.229847	eval-rmse:0.256934	train-rmspe:0.229847
[138]	train-rmse:0.254453 eval-rmspe:0.228595	eval-rmse:0.254453	train-rmspe:0.228595

[139]	train-rmse:0.251662	eval-rmse:0.251662	train-rmspe:0.226986
	eval-rmspe:0.226986		
[140]	train-rmse:0.248718	eval-rmse:0.248718	train-rmspe:0.225264
	eval-rmspe:0.225264		
[141]	train-rmse:0.246478	eval-rmse:0.246478	train-rmspe:0.224057
	eval-rmspe:0.224057		
[142]	train-rmse:0.244581	eval-rmse:0.244581	train-rmspe:0.223154
	eval-rmspe:0.223154		
[143]	train-rmse:0.24218	eval-rmse:0.24218	train-rmspe:0.221818
	eval-rmspe:0.221818		
[144]	train-rmse:0.240002	eval-rmse:0.240002	train-rmspe:0.220612
	eval-rmspe:0.220612		
[145]	train-rmse:0.237559	eval-rmse:0.237559	train-rmspe:0.219138
	eval-rmspe:0.219138		
[146]	train-rmse:0.23587	eval-rmse:0.23587	train-rmspe:0.218391
	eval-rmspe:0.218391		
[147]	train-rmse:0.234243	eval-rmse:0.234243	train-rmspe:0.217661
	eval-rmspe:0.217661		
[148]	train-rmse:0.232613	eval-rmse:0.232613	train-rmspe:0.216856
	eval-rmspe:0.216856		
[149]	train-rmse:0.231141	eval-rmse:0.231141	train-rmspe:0.216193
	eval-rmspe:0.216193		
[150]	train-rmse:0.229241	eval-rmse:0.229241	train-rmspe:0.215139
	eval-rmspe:0.215139		
[151]	train-rmse:0.228129	eval-rmse:0.228129	train-rmspe:0.214827
	eval-rmspe:0.214827		
[152]	train-rmse:0.226754	eval-rmse:0.226754	train-rmspe:0.21427
	eval-rmspe:0.21427		
[153]	train-rmse:0.225278	eval-rmse:0.225278	train-rmspe:0.213561
	eval-rmspe:0.213561		
[154]	train-rmse:0.224183	eval-rmse:0.224183	train-rmspe:0.213173
	eval-rmspe:0.213173		
[155]	train-rmse:0.223103	eval-rmse:0.223103	train-rmspe:0.212793
	eval-rmspe:0.212793		
[156]	train-rmse:0.221918	eval-rmse:0.221918	train-rmspe:0.212244
	eval-rmspe:0.212244		
[157]	train-rmse:0.220561	eval-rmse:0.220561	train-rmspe:0.211556
	eval-rmspe:0.211556		
[158]	train-rmse:0.219365	eval-rmse:0.219365	train-rmspe:0.210971
	eval-rmspe:0.210971		
[159]	train-rmse:0.217794	eval-rmse:0.217794	train-rmspe:0.209959
	eval-rmspe:0.209959		
[160]	train-rmse:0.216941	eval-rmse:0.216941	train-rmspe:0.209682
	eval-rmspe:0.209682		
[161]	train-rmse:0.215911	eval-rmse:0.215911	train-rmspe:0.209237
	eval-rmspe:0.209237		
[162]	train-rmse:0.214686	eval-rmse:0.214686	train-rmspe:0.208517
	eval-rmspe:0.208517		

[163]	train-rmse:0.213433 eval-rmspe:0.207828	eval-rmse:0.213433	train-rmspe:0.207828
[164]	train-rmse:0.211955 eval-rmspe:0.206837	eval-rmse:0.211955	train-rmspe:0.206837
[165]	train-rmse:0.21096 eval-rmspe:0.206394	eval-rmse:0.21096	train-rmspe:0.206394
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[232]	train-rmse:0.167223 eval-rmspe:0.174423	eval-rmse:0.167223	train-rmspe:0.174423
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[303]	train-rmse:0.137894 eval-rmspe:0.144468	eval-rmse:0.137894	train-rmspe:0.144468
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[305]	train-rmse:0.137441 eval-rmspe:0.143998	eval-rmse:0.137441	train-rmspe:0.143998
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[500]	train-rmse:0.092299 eval-rmspe:0.095471	eval-rmse:0.092299	train-rmspe:0.095471
[501]	train-rmse:0.092157 eval-rmspe:0.095324	eval-rmse:0.092157	train-rmspe:0.095324
[502]	train-rmse:0.091937 eval-rmspe:0.095087	eval-rmse:0.091937	train-rmspe:0.095087
[503]	train-rmse:0.091864 eval-rmspe:0.095007	eval-rmse:0.091864	train-rmspe:0.095007
[504]	train-rmse:0.091719 eval-rmspe:0.09482	eval-rmse:0.091719	train-rmspe:0.09482
[505]	train-rmse:0.091612 eval-rmspe:0.094705	eval-rmse:0.091612	train-rmspe:0.094705
[506]	train-rmse:0.091494 eval-rmspe:0.094584	eval-rmse:0.091494	train-rmspe:0.094584
[507]	train-rmse:0.091453 eval-rmspe:0.094541	eval-rmse:0.091453	train-rmspe:0.094541
[508]	train-rmse:0.091211 eval-rmspe:0.094287	eval-rmse:0.091211	train-rmspe:0.094287
[509]	train-rmse:0.091133 eval-rmspe:0.094204	eval-rmse:0.091133	train-rmspe:0.094204
[510]	train-rmse:0.091064 eval-rmspe:0.094133	eval-rmse:0.091064	train-rmspe:0.094133
[511]	train-rmse:0.090869 eval-rmspe:0.09393	eval-rmse:0.090869	train-rmspe:0.09393
[512]	train-rmse:0.090735 eval-rmspe:0.093791	eval-rmse:0.090735	train-rmspe:0.093791
[513]	train-rmse:0.090559 eval-rmspe:0.093603	eval-rmse:0.090559	train-rmspe:0.093603
[514]	train-rmse:0.090399 eval-rmspe:0.093429	eval-rmse:0.090399	train-rmspe:0.093429
[515]	train-rmse:0.09016 eval-rmspe:0.093179	eval-rmse:0.09016	train-rmspe:0.093179
[516]	train-rmse:0.090079 eval-rmspe:0.093098	eval-rmse:0.090079	train-rmspe:0.093098
[517]	train-rmse:0.089959 eval-rmspe:0.092957	eval-rmse:0.089959	train-rmspe:0.092957
[518]	train-rmse:0.089766 eval-rmspe:0.092734	eval-rmse:0.089766	train-rmspe:0.092734
[519]	train-rmse:0.089577 eval-rmspe:0.092534	eval-rmse:0.089577	train-rmspe:0.092534
[520]	train-rmse:0.089492 eval-rmspe:0.092449	eval-rmse:0.089492	train-rmspe:0.092449
[521]	train-rmse:0.089378 eval-rmspe:0.092329	eval-rmse:0.089378	train-rmspe:0.092329
[522]	train-rmse:0.089318 eval-rmspe:0.092265	eval-rmse:0.089318	train-rmspe:0.092265

[523]	train-rmse:0.089236 eval-rmspe:0.092184	eval-rmse:0.089236	train-rmspe:0.092184
[524]	train-rmse:0.089193 eval-rmspe:0.09214	eval-rmse:0.089193	train-rmspe:0.09214
[525]	train-rmse:0.089154 eval-rmspe:0.092101	eval-rmse:0.089154	train-rmspe:0.092101
[526]	train-rmse:0.089044 eval-rmspe:0.091987	eval-rmse:0.089044	train-rmspe:0.091987
[527]	train-rmse:0.088994 eval-rmspe:0.091922	eval-rmse:0.088994	train-rmspe:0.091922
[528]	train-rmse:0.088843 eval-rmspe:0.091767	eval-rmse:0.088843	train-rmspe:0.091767
[529]	train-rmse:0.088782 eval-rmspe:0.091705	eval-rmse:0.088782	train-rmspe:0.091705
[530]	train-rmse:0.088713 eval-rmspe:0.091635	eval-rmse:0.088713	train-rmspe:0.091635
[531]	train-rmse:0.088653 eval-rmspe:0.091576	eval-rmse:0.088653	train-rmspe:0.091576
[532]	train-rmse:0.088532 eval-rmspe:0.091446	eval-rmse:0.088532	train-rmspe:0.091446
[533]	train-rmse:0.088419 eval-rmspe:0.091329	eval-rmse:0.088419	train-rmspe:0.091329
[534]	train-rmse:0.088355 eval-rmspe:0.09126	eval-rmse:0.088355	train-rmspe:0.09126
[535]	train-rmse:0.088282 eval-rmspe:0.091184	eval-rmse:0.088282	train-rmspe:0.091184
[536]	train-rmse:0.088 rmspe:0.090867	eval-rmse:0.088	train-rmspe:0.090867 eval-rmspe:0.090867
[537]	train-rmse:0.087898 eval-rmspe:0.090759	eval-rmse:0.087898	train-rmspe:0.090759
[538]	train-rmse:0.087819 eval-rmspe:0.09067	eval-rmse:0.087819	train-rmspe:0.09067
[539]	train-rmse:0.087658 eval-rmspe:0.090484	eval-rmse:0.087658	train-rmspe:0.090484
[540]	train-rmse:0.087441 eval-rmspe:0.090243	eval-rmse:0.087441	train-rmspe:0.090243
[541]	train-rmse:0.087376 eval-rmspe:0.090177	eval-rmse:0.087376	train-rmspe:0.090177
[542]	train-rmse:0.087325 eval-rmspe:0.090124	eval-rmse:0.087325	train-rmspe:0.090124
[543]	train-rmse:0.087206 eval-rmspe:0.089985	eval-rmse:0.087206	train-rmspe:0.089985
[544]	train-rmse:0.08714 eval-rmspe:0.089918	eval-rmse:0.08714	train-rmspe:0.089918
[545]	train-rmse:0.086977 eval-rmspe:0.089744	eval-rmse:0.086977	train-rmspe:0.089744
[546]	train-rmse:0.086865 eval-rmspe:0.089627	eval-rmse:0.086865	train-rmspe:0.089627

[547]	train-rmse:0.086704 eval-rmspe:0.089462	eval-rmse:0.086704	train-rmspe:0.089462
[548]	train-rmse:0.08659 eval-rmspe:0.08934	eval-rmse:0.08659	train-rmspe:0.08934
[549]	train-rmse:0.086557 eval-rmspe:0.089306	eval-rmse:0.086557	train-rmspe:0.089306
[550]	train-rmse:0.086358 eval-rmspe:0.089091	eval-rmse:0.086358	train-rmspe:0.089091
[551]	train-rmse:0.086247 eval-rmspe:0.088974	eval-rmse:0.086247	train-rmspe:0.088974
[552]	train-rmse:0.086139 eval-rmspe:0.088821	eval-rmse:0.086139	train-rmspe:0.088821
[553]	train-rmse:0.086009 eval-rmspe:0.088681	eval-rmse:0.086009	train-rmspe:0.088681
[554]	train-rmse:0.085899 eval-rmspe:0.088565	eval-rmse:0.085899	train-rmspe:0.088565
[555]	train-rmse:0.085873 eval-rmspe:0.08854	eval-rmse:0.085873	train-rmspe:0.08854
[556]	train-rmse:0.085743 eval-rmspe:0.088398	eval-rmse:0.085743	train-rmspe:0.088398
[557]	train-rmse:0.085711 eval-rmspe:0.088366	eval-rmse:0.085711	train-rmspe:0.088366
[558]	train-rmse:0.085498 eval-rmspe:0.088084	eval-rmse:0.085498	train-rmspe:0.088084
[559]	train-rmse:0.085293 eval-rmspe:0.087862	eval-rmse:0.085293	train-rmspe:0.087862
[560]	train-rmse:0.085057 eval-rmspe:0.087603	eval-rmse:0.085057	train-rmspe:0.087603
[561]	train-rmse:0.084992 eval-rmspe:0.087539	eval-rmse:0.084992	train-rmspe:0.087539
[562]	train-rmse:0.084959 eval-rmspe:0.087505	eval-rmse:0.084959	train-rmspe:0.087505
[563]	train-rmse:0.084869 eval-rmspe:0.087411	eval-rmse:0.084869	train-rmspe:0.087411
[564]	train-rmse:0.084706 eval-rmspe:0.08724	eval-rmse:0.084706	train-rmspe:0.08724
[565]	train-rmse:0.084584 eval-rmspe:0.087105	eval-rmse:0.084584	train-rmspe:0.087105
[566]	train-rmse:0.08454 eval-rmspe:0.08706	eval-rmse:0.08454	train-rmspe:0.08706
[567]	train-rmse:0.084343 eval-rmspe:0.08685	eval-rmse:0.084343	train-rmspe:0.08685
[568]	train-rmse:0.084265 eval-rmspe:0.08677	eval-rmse:0.084265	train-rmspe:0.08677
[569]	train-rmse:0.084229 eval-rmspe:0.086735	eval-rmse:0.084229	train-rmspe:0.086735
[570]	train-rmse:0.084186 eval-rmspe:0.08669	eval-rmse:0.084186	train-rmspe:0.08669

[571]	train-rmse:0.084109 eval-rmspe:0.086607	eval-rmse:0.084109	train-rmspe:0.086607
[572]	train-rmse:0.083975 eval-rmspe:0.086442	eval-rmse:0.083975	train-rmspe:0.086442
[573]	train-rmse:0.083849 eval-rmspe:0.08631	eval-rmse:0.083849	train-rmspe:0.08631
[574]	train-rmse:0.083759 eval-rmspe:0.086214	eval-rmse:0.083759	train-rmspe:0.086214
[575]	train-rmse:0.083639 eval-rmspe:0.086092	eval-rmse:0.083639	train-rmspe:0.086092
[576]	train-rmse:0.083518 eval-rmspe:0.085967	eval-rmse:0.083518	train-rmspe:0.085967
[577]	train-rmse:0.083368 eval-rmspe:0.08578	eval-rmse:0.083368	train-rmspe:0.08578
[578]	train-rmse:0.083242 eval-rmspe:0.085649	eval-rmse:0.083242	train-rmspe:0.085649
[579]	train-rmse:0.083138 eval-rmspe:0.085537	eval-rmse:0.083138	train-rmspe:0.085537
[580]	train-rmse:0.083063 eval-rmspe:0.085457	eval-rmse:0.083063	train-rmspe:0.085457
[581]	train-rmse:0.082888 eval-rmspe:0.085251	eval-rmse:0.082888	train-rmspe:0.085251
[582]	train-rmse:0.082832 eval-rmspe:0.085193	eval-rmse:0.082832	train-rmspe:0.085193
[583]	train-rmse:0.082717 eval-rmspe:0.085055	eval-rmse:0.082717	train-rmspe:0.085055
[584]	train-rmse:0.08261 eval-rmspe:0.084946	eval-rmse:0.08261	train-rmspe:0.084946
[585]	train-rmse:0.082524 eval-rmspe:0.084856	eval-rmse:0.082524	train-rmspe:0.084856
[586]	train-rmse:0.082378 eval-rmspe:0.084702	eval-rmse:0.082378	train-rmspe:0.084702
[587]	train-rmse:0.082248 eval-rmspe:0.08456	eval-rmse:0.082248	train-rmspe:0.08456
[588]	train-rmse:0.082213 eval-rmspe:0.084525	eval-rmse:0.082213	train-rmspe:0.084525
[589]	train-rmse:0.082092 eval-rmspe:0.08439	eval-rmse:0.082092	train-rmspe:0.08439
[590]	train-rmse:0.081929 eval-rmspe:0.084219	eval-rmse:0.081929	train-rmspe:0.084219
[591]	train-rmse:0.081864 eval-rmspe:0.08415	eval-rmse:0.081864	train-rmspe:0.08415
[592]	train-rmse:0.081782 eval-rmspe:0.084062	eval-rmse:0.081782	train-rmspe:0.084062
[593]	train-rmse:0.08166 eval-rmspe:0.083928	eval-rmse:0.08166	train-rmspe:0.083928
[594]	train-rmse:0.081518 eval-rmspe:0.083773	eval-rmse:0.081518	train-rmspe:0.083773

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[595]   train-rmse:0.081345   eval-rmse:0.081345   train-rmspe:0.083564
eval-rmspe:0.083564
[596]   train-rmse:0.081301   eval-rmse:0.081301   train-rmspe:0.083517
eval-rmspe:0.083517
[597]   train-rmse:0.081233   eval-rmse:0.081233   train-rmspe:0.08345
eval-rmspe:0.08345
[598]   train-rmse:0.081102   eval-rmse:0.081102   train-rmspe:0.083307
eval-rmspe:0.083307
[599]   train-rmse:0.080966   eval-rmse:0.080966   train-rmspe:0.083167
eval-rmspe:0.083167
round 3 end
round 4:
[0]     train-rmse:8.02732   eval-rmse:8.02732   train-rmspe:0.999811
eval-rmspe:0.999811
Multiple eval metrics have been passed: 'eval-rmspe' will be used for early
stopping.

```

Will train until eval-rmspe hasn't improved in 100 rounds.

```

[1]     train-rmse:7.78701   eval-rmse:7.78701   train-rmspe:0.999713
eval-rmspe:0.999713
[2]     train-rmse:7.55398   eval-rmse:7.55398   train-rmspe:0.999594
eval-rmspe:0.999594
[3]     train-rmse:7.32796   eval-rmse:7.32796   train-rmspe:0.999448
eval-rmspe:0.999448
[4]     train-rmse:7.10876   eval-rmse:7.10876   train-rmspe:0.999272
eval-rmspe:0.999272
[5]     train-rmse:6.89608   eval-rmse:6.89608   train-rmspe:0.99906
eval-rmspe:0.99906
[6]     train-rmse:6.68978   eval-rmse:6.68978   train-rmspe:0.998806
eval-rmspe:0.998806
[7]     train-rmse:6.48971   eval-rmse:6.48971   train-rmspe:0.998505
eval-rmspe:0.998505
[8]     train-rmse:6.29562   eval-rmse:6.29562   train-rmspe:0.99815
eval-rmspe:0.99815
[9]     train-rmse:6.10741   eval-rmse:6.10741   train-rmspe:0.997733
eval-rmspe:0.997733
[10]    train-rmse:5.92488   eval-rmse:5.92488   train-rmspe:0.997246
eval-rmspe:0.997246
[11]    train-rmse:5.74783   eval-rmse:5.74783   train-rmspe:0.996681
eval-rmspe:0.996681
[12]    train-rmse:5.57605   eval-rmse:5.57605   train-rmspe:0.99603
eval-rmspe:0.99603
[13]    train-rmse:5.40947   eval-rmse:5.40947   train-rmspe:0.995281
eval-rmspe:0.995281
[14]    train-rmse:5.24794   eval-rmse:5.24794   train-rmspe:0.994426
eval-rmspe:0.994426
[15]    train-rmse:5.09124   eval-rmse:5.09124   train-rmspe:0.993455
eval-rmspe:0.993455

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[16]	train-rmse:4.93929	eval-rmse:4.93929	train-rmspe:0.992356
	eval-rmspe:0.992356		
[17]	train-rmse:4.79188	eval-rmse:4.79188	train-rmspe:0.99112
	eval-rmspe:0.99112		
[18]	train-rmse:4.64894	eval-rmse:4.64894	train-rmspe:0.989734
	eval-rmspe:0.989734		
[19]	train-rmse:4.51029	eval-rmse:4.51029	train-rmspe:0.988188
	eval-rmspe:0.988188		
[20]	train-rmse:4.37586	eval-rmse:4.37586	train-rmspe:0.986468
	eval-rmspe:0.986468		
[21]	train-rmse:4.24546	eval-rmse:4.24546	train-rmspe:0.984564
	eval-rmspe:0.984564		
[22]	train-rmse:4.119	eval-rmse:4.119	train-rmspe:0.982471
	rmspe:0.982471		eval-
[23]	train-rmse:3.99635	eval-rmse:3.99635	train-rmspe:0.980169
	eval-rmspe:0.980169		
[24]	train-rmse:3.87745	eval-rmse:3.87745	train-rmspe:0.977651
	eval-rmspe:0.977651		
[25]	train-rmse:3.76212	eval-rmse:3.76212	train-rmspe:0.974903
	eval-rmspe:0.974903		
[26]	train-rmse:3.65024	eval-rmse:3.65024	train-rmspe:0.971923
	eval-rmspe:0.971923		
[27]	train-rmse:3.54177	eval-rmse:3.54177	train-rmspe:0.968688
	eval-rmspe:0.968688		
[28]	train-rmse:3.43655	eval-rmse:3.43655	train-rmspe:0.965211
	eval-rmspe:0.965211		
[29]	train-rmse:3.33448	eval-rmse:3.33448	train-rmspe:0.961478
	eval-rmspe:0.961478		
[30]	train-rmse:3.23553	eval-rmse:3.23553	train-rmspe:0.957475
	eval-rmspe:0.957475		
[31]	train-rmse:3.13955	eval-rmse:3.13955	train-rmspe:0.953199
	eval-rmspe:0.953199		
[32]	train-rmse:3.04648	eval-rmse:3.04648	train-rmspe:0.948638
	eval-rmspe:0.948638		
[33]	train-rmse:2.95623	eval-rmse:2.95623	train-rmspe:0.943801
	eval-rmspe:0.943801		
[34]	train-rmse:2.86878	eval-rmse:2.86878	train-rmspe:0.938658
	eval-rmspe:0.938658		
[35]	train-rmse:2.78392	eval-rmse:2.78392	train-rmspe:0.933236
	eval-rmspe:0.933236		
[36]	train-rmse:2.70161	eval-rmse:2.70161	train-rmspe:0.927544
	eval-rmspe:0.927544		
[37]	train-rmse:2.62185	eval-rmse:2.62185	train-rmspe:0.921546
	eval-rmspe:0.921546		
[38]	train-rmse:2.54447	eval-rmse:2.54447	train-rmspe:0.915261
	eval-rmspe:0.915261		
[39]	train-rmse:2.46943	eval-rmse:2.46943	train-rmspe:0.908709
	eval-rmspe:0.908709		

[40]	train-rmse:2.39671 eval-rmspe:0.901846	eval-rmse:2.39671	train-rmspe:0.901846
[41]	train-rmse:2.32613 eval-rmspe:0.894723	eval-rmse:2.32613	train-rmspe:0.894723
[42]	train-rmse:2.25776 eval-rmspe:0.88731	eval-rmse:2.25776	train-rmspe:0.88731
[43]	train-rmse:2.1915 eval-rmspe:0.879644	eval-rmse:2.1915	train-rmspe:0.879644
[44]	train-rmse:2.12719 eval-rmspe:0.871723	eval-rmse:2.12719	train-rmspe:0.871723
[45]	train-rmse:2.06478 eval-rmspe:0.863586	eval-rmse:2.06478	train-rmspe:0.863586
[46]	train-rmse:2.00439 eval-rmspe:0.855145	eval-rmse:2.00439	train-rmspe:0.855145
[47]	train-rmse:1.94578 eval-rmspe:0.84647	eval-rmse:1.94578	train-rmspe:0.84647
[48]	train-rmse:1.88888 eval-rmspe:0.837638	eval-rmse:1.88888	train-rmspe:0.837638
[49]	train-rmse:1.83382 eval-rmspe:0.828537	eval-rmse:1.83382	train-rmspe:0.828537
[50]	train-rmse:1.78045 eval-rmspe:0.819204	eval-rmse:1.78045	train-rmspe:0.819204
[51]	train-rmse:1.72877 eval-rmspe:0.809668	eval-rmse:1.72877	train-rmspe:0.809668
[52]	train-rmse:1.67847 eval-rmspe:0.800034	eval-rmse:1.67847	train-rmspe:0.800034
[53]	train-rmse:1.62967 eval-rmspe:0.790226	eval-rmse:1.62967	train-rmspe:0.790226
[54]	train-rmse:1.58245 eval-rmspe:0.780218	eval-rmse:1.58245	train-rmspe:0.780218
[55]	train-rmse:1.53665 eval-rmspe:0.770133	eval-rmse:1.53665	train-rmspe:0.770133
[56]	train-rmse:1.49231 eval-rmspe:0.759887	eval-rmse:1.49231	train-rmspe:0.759887
[57]	train-rmse:1.44935 eval-rmspe:0.749491	eval-rmse:1.44935	train-rmspe:0.749491
[58]	train-rmse:1.40758 eval-rmspe:0.739051	eval-rmse:1.40758	train-rmspe:0.739051
[59]	train-rmse:1.36722 eval-rmspe:0.728476	eval-rmse:1.36722	train-rmspe:0.728476
[60]	train-rmse:1.32822 eval-rmspe:0.717802	eval-rmse:1.32822	train-rmspe:0.717802
[61]	train-rmse:1.29038 eval-rmspe:0.707077	eval-rmse:1.29038	train-rmspe:0.707077
[62]	train-rmse:1.25345 eval-rmspe:0.696379	eval-rmse:1.25345	train-rmspe:0.696379
[63]	train-rmse:1.218 eval-rmspe:0.685529	eval-rmse:1.218	train-rmspe:0.685529

[64]	train-rmse:1.18363	eval-rmse:1.18363	train-rmspe:0.674695
	eval-rmspe:0.674695		
[65]	train-rmse:1.15035	eval-rmse:1.15035	train-rmspe:0.66383
	eval-rmspe:0.66383		
[66]	train-rmse:1.11757	eval-rmse:1.11757	train-rmspe:0.653095
	eval-rmspe:0.653095		
[67]	train-rmse:1.08629	eval-rmse:1.08629	train-rmspe:0.642279
	eval-rmspe:0.642279		
[68]	train-rmse:1.05584	eval-rmse:1.05584	train-rmspe:0.631508
	eval-rmspe:0.631508		
[69]	train-rmse:1.02653	eval-rmse:1.02653	train-rmspe:0.620725
	eval-rmspe:0.620725		
[70]	train-rmse:0.998066	eval-rmse:0.998066	train-rmspe:0.610036
	eval-rmspe:0.610036		
[71]	train-rmse:0.97035	eval-rmse:0.97035	train-rmspe:0.599404
	eval-rmspe:0.599404		
[72]	train-rmse:0.943536	eval-rmse:0.943536	train-rmspe:0.588852
	eval-rmspe:0.588852		
[73]	train-rmse:0.917267	eval-rmse:0.917267	train-rmspe:0.578395
	eval-rmspe:0.578395		
[74]	train-rmse:0.892056	eval-rmse:0.892056	train-rmspe:0.568036
	eval-rmspe:0.568036		
[75]	train-rmse:0.867815	eval-rmse:0.867815	train-rmspe:0.557728
	eval-rmspe:0.557728		
[76]	train-rmse:0.843875	eval-rmse:0.843875	train-rmspe:0.547557
	eval-rmspe:0.547557		
[77]	train-rmse:0.821157	eval-rmse:0.821157	train-rmspe:0.537485
	eval-rmspe:0.537485		
[78]	train-rmse:0.79914	eval-rmse:0.79914	train-rmspe:0.527518
	eval-rmspe:0.527518		
[79]	train-rmse:0.777928	eval-rmse:0.777928	train-rmspe:0.517699
	eval-rmspe:0.517699		
[80]	train-rmse:0.757328	eval-rmse:0.757328	train-rmspe:0.508022
	eval-rmspe:0.508022		
[81]	train-rmse:0.737182	eval-rmse:0.737182	train-rmspe:0.498467
	eval-rmspe:0.498467		
[82]	train-rmse:0.717877	eval-rmse:0.717877	train-rmspe:0.48907
	eval-rmspe:0.48907		
[83]	train-rmse:0.699013	eval-rmse:0.699013	train-rmspe:0.479844
	eval-rmspe:0.479844		
[84]	train-rmse:0.680965	eval-rmse:0.680965	train-rmspe:0.470773
	eval-rmspe:0.470773		
[85]	train-rmse:0.663647	eval-rmse:0.663647	train-rmspe:0.461868
	eval-rmspe:0.461868		
[86]	train-rmse:0.646688	eval-rmse:0.646688	train-rmspe:0.453133
	eval-rmspe:0.453133		
[87]	train-rmse:0.630379	eval-rmse:0.630379	train-rmspe:0.444573
	eval-rmspe:0.444573		

[88]	train-rmse:0.614618 eval-rmspe:0.436203	eval-rmse:0.614618	train-rmspe:0.436203
[89]	train-rmse:0.599294 eval-rmspe:0.427997	eval-rmse:0.599294	train-rmspe:0.427997
[90]	train-rmse:0.584392 eval-rmspe:0.419942	eval-rmse:0.584392	train-rmspe:0.419942
[91]	train-rmse:0.569641 eval-rmspe:0.411973	eval-rmse:0.569641	train-rmspe:0.411973
[92]	train-rmse:0.555496 eval-rmspe:0.404216	eval-rmse:0.555496	train-rmspe:0.404216
[93]	train-rmse:0.542356 eval-rmspe:0.396783	eval-rmse:0.542356	train-rmspe:0.396783
[94]	train-rmse:0.52916 eval-rmspe:0.389373	eval-rmse:0.52916	train-rmspe:0.389373
[95]	train-rmse:0.516598 eval-rmspe:0.38224	eval-rmse:0.516598	train-rmspe:0.38224
[96]	train-rmse:0.504797 eval-rmspe:0.375389	eval-rmse:0.504797	train-rmspe:0.375389
[97]	train-rmse:0.49311 eval-rmspe:0.368624	eval-rmse:0.49311	train-rmspe:0.368624
[98]	train-rmse:0.482009 eval-rmspe:0.362119	eval-rmse:0.482009	train-rmspe:0.362119
[99]	train-rmse:0.471162 eval-rmspe:0.355755	eval-rmse:0.471162	train-rmspe:0.355755
[100]	train-rmse:0.460708 eval-rmspe:0.349611	eval-rmse:0.460708	train-rmspe:0.349611
[101]	train-rmse:0.450604 eval-rmspe:0.343635	eval-rmse:0.450604	train-rmspe:0.343635
[102]	train-rmse:0.441002 eval-rmspe:0.337908	eval-rmse:0.441002	train-rmspe:0.337908
[103]	train-rmse:0.431502 eval-rmspe:0.332246	eval-rmse:0.431502	train-rmspe:0.332246
[104]	train-rmse:0.422497 eval-rmspe:0.326817	eval-rmse:0.422497	train-rmspe:0.326817
[105]	train-rmse:0.413958 eval-rmspe:0.321655	eval-rmse:0.413958	train-rmspe:0.321655
[106]	train-rmse:0.405582 eval-rmspe:0.316596	eval-rmse:0.405582	train-rmspe:0.316596
[107]	train-rmse:0.397431 eval-rmspe:0.311669	eval-rmse:0.397431	train-rmspe:0.311669
[108]	train-rmse:0.389438 eval-rmspe:0.306916	eval-rmse:0.389438	train-rmspe:0.306916
[109]	train-rmse:0.381844 eval-rmspe:0.302379	eval-rmse:0.381844	train-rmspe:0.302379
[110]	train-rmse:0.37457 eval-rmspe:0.297987	eval-rmse:0.37457	train-rmspe:0.297987
[111]	train-rmse:0.367731 eval-rmspe:0.293906	eval-rmse:0.367731	train-rmspe:0.293906

[112]	train-rmse:0.361042	eval-rmse:0.361042	train-rmspe:0.289884
	eval-rmspe:0.289884		
[113]	train-rmse:0.354524	eval-rmse:0.354524	train-rmspe:0.286018
	eval-rmspe:0.286018		
[114]	train-rmse:0.347966	eval-rmse:0.347966	train-rmspe:0.282028
	eval-rmspe:0.282028		
[115]	train-rmse:0.342074	eval-rmse:0.342074	train-rmspe:0.278543
	eval-rmspe:0.278543		
[116]	train-rmse:0.336096	eval-rmse:0.336096	train-rmspe:0.274899
	eval-rmspe:0.274899		
[117]	train-rmse:0.330622	eval-rmse:0.330622	train-rmspe:0.27165
	eval-rmspe:0.27165		
[118]	train-rmse:0.324759	eval-rmse:0.324759	train-rmspe:0.268092
	eval-rmspe:0.268092		
[119]	train-rmse:0.319492	eval-rmse:0.319492	train-rmspe:0.264904
	eval-rmspe:0.264904		
[120]	train-rmse:0.314663	eval-rmse:0.314663	train-rmspe:0.262045
	eval-rmspe:0.262045		
[121]	train-rmse:0.3098	eval-rmse:0.3098	train-rmspe:0.259167
	eval-rmspe:0.259167		
[122]	train-rmse:0.305424	eval-rmse:0.305424	train-rmspe:0.256696
	eval-rmspe:0.256696		
[123]	train-rmse:0.301189	eval-rmse:0.301189	train-rmspe:0.254264
	eval-rmspe:0.254264		
[124]	train-rmse:0.29647	eval-rmse:0.29647	train-rmspe:0.251469
	eval-rmspe:0.251469		
[125]	train-rmse:0.292304	eval-rmse:0.292304	train-rmspe:0.249064
	eval-rmspe:0.249064		
[126]	train-rmse:0.288441	eval-rmse:0.288441	train-rmspe:0.246914
	eval-rmspe:0.246914		
[127]	train-rmse:0.284802	eval-rmse:0.284802	train-rmspe:0.244904
	eval-rmspe:0.244904		
[128]	train-rmse:0.281132	eval-rmse:0.281132	train-rmspe:0.242904
	eval-rmspe:0.242904		
[129]	train-rmse:0.277733	eval-rmse:0.277733	train-rmspe:0.241008
	eval-rmspe:0.241008		
[130]	train-rmse:0.274398	eval-rmse:0.274398	train-rmspe:0.239217
	eval-rmspe:0.239217		
[131]	train-rmse:0.271402	eval-rmse:0.271402	train-rmspe:0.237604
	eval-rmspe:0.237604		
[132]	train-rmse:0.268326	eval-rmse:0.268326	train-rmspe:0.235968
	eval-rmspe:0.235968		
[133]	train-rmse:0.265503	eval-rmse:0.265503	train-rmspe:0.234543
	eval-rmspe:0.234543		
[134]	train-rmse:0.262743	eval-rmse:0.262743	train-rmspe:0.233154
	eval-rmspe:0.233154		
[135]	train-rmse:0.259957	eval-rmse:0.259957	train-rmspe:0.231595
	eval-rmspe:0.231595		

[136]	train-rmse:0.257423	eval-rmse:0.257423	train-rmspe:0.230288
	eval-rmspe:0.230288		
[137]	train-rmse:0.255033	eval-rmse:0.255033	train-rmspe:0.229067
	eval-rmspe:0.229067		
[138]	train-rmse:0.252673	eval-rmse:0.252673	train-rmspe:0.227879
	eval-rmspe:0.227879		
[139]	train-rmse:0.250498	eval-rmse:0.250498	train-rmspe:0.226813
	eval-rmspe:0.226813		
[140]	train-rmse:0.248343	eval-rmse:0.248343	train-rmspe:0.225834
	eval-rmspe:0.225834		
[141]	train-rmse:0.246079	eval-rmse:0.246079	train-rmspe:0.224632
	eval-rmspe:0.224632		
[142]	train-rmse:0.24428	eval-rmse:0.24428	train-rmspe:0.223849
	eval-rmspe:0.223849		
[143]	train-rmse:0.242214	eval-rmse:0.242214	train-rmspe:0.22286
	eval-rmspe:0.22286		
[144]	train-rmse:0.240479	eval-rmse:0.240479	train-rmspe:0.222108
	eval-rmspe:0.222108		
[145]	train-rmse:0.238949	eval-rmse:0.238949	train-rmspe:0.221509
	eval-rmspe:0.221509		
[146]	train-rmse:0.237199	eval-rmse:0.237199	train-rmspe:0.220652
	eval-rmspe:0.220652		
[147]	train-rmse:0.23555	eval-rmse:0.23555	train-rmspe:0.219872
	eval-rmspe:0.219872		
[148]	train-rmse:0.232713	eval-rmse:0.232713	train-rmspe:0.21786
	eval-rmspe:0.21786		
[149]	train-rmse:0.231225	eval-rmse:0.231225	train-rmspe:0.217198
	eval-rmspe:0.217198		
[150]	train-rmse:0.229284	eval-rmse:0.229284	train-rmspe:0.215978
	eval-rmspe:0.215978		
[151]	train-rmse:0.227803	eval-rmse:0.227803	train-rmspe:0.215306
	eval-rmspe:0.215306		
[152]	train-rmse:0.22612	eval-rmse:0.22612	train-rmspe:0.214471
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[153]	train-rmse:0.224832	eval-rmse:0.224832	train-rmspe:0.213942
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[154]	train-rmse:0.223312	eval-rmse:0.223312	train-rmspe:0.213136
	eval-rmspe:0.213136		
[155]	train-rmse:0.222081	eval-rmse:0.222081	train-rmspe:0.212596
	eval-rmspe:0.212596		
[156]	train-rmse:0.21993	eval-rmse:0.21993	train-rmspe:0.211165
	eval-rmspe:0.211165		
[157]	train-rmse:0.218479	eval-rmse:0.218479	train-rmspe:0.210308
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[158]	train-rmse:0.217543	eval-rmse:0.217543	train-rmspe:0.209984
	eval-rmspe:0.209984		
[159]	train-rmse:0.216024	eval-rmse:0.216024	train-rmspe:0.209094
	eval-rmspe:0.209094		

[160]	train-rmse:0.21472 eval-rmspe:0.208411	eval-rmse:0.21472	train-rmspe:0.208411
[161]	train-rmse:0.2132 eval-rmspe:0.207505	eval-rmse:0.2132	train-rmspe:0.207505
[162]	train-rmse:0.212163 eval-rmspe:0.207089	eval-rmse:0.212163	train-rmspe:0.207089
[163]	train-rmse:0.211233 eval-rmspe:0.206674	eval-rmse:0.211233	train-rmspe:0.206674
[164]	train-rmse:0.209582 eval-rmspe:0.205444	eval-rmse:0.209582	train-rmspe:0.205444
[165]	train-rmse:0.208807 eval-rmspe:0.205167	eval-rmse:0.208807	train-rmspe:0.205167
[166]	train-rmse:0.207992 eval-rmspe:0.204818	eval-rmse:0.207992	train-rmspe:0.204818
[167]	train-rmse:0.207354 eval-rmspe:0.204645	eval-rmse:0.207354	train-rmspe:0.204645
[168]	train-rmse:0.206635 eval-rmspe:0.204382	eval-rmse:0.206635	train-rmspe:0.204382
[169]	train-rmse:0.205525 eval-rmspe:0.203702	eval-rmse:0.205525	train-rmspe:0.203702
[170]	train-rmse:0.204798 eval-rmspe:0.203376	eval-rmse:0.204798	train-rmspe:0.203376
[171]	train-rmse:0.203191 eval-rmspe:0.202146	eval-rmse:0.203191	train-rmspe:0.202146
[172]	train-rmse:0.202215 eval-rmspe:0.201613	eval-rmse:0.202215	train-rmspe:0.201613
[173]	train-rmse:0.201325 eval-rmspe:0.201114	eval-rmse:0.201325	train-rmspe:0.201114
[174]	train-rmse:0.200754 eval-rmspe:0.200877	eval-rmse:0.200754	train-rmspe:0.200877
[175]	train-rmse:0.200077 eval-rmspe:0.200528	eval-rmse:0.200077	train-rmspe:0.200528
[176]	train-rmse:0.199318 eval-rmspe:0.200107	eval-rmse:0.199318	train-rmspe:0.200107
[177]	train-rmse:0.1985 eval-rmspe:0.199587	eval-rmse:0.1985	train-rmspe:0.199587
[178]	train-rmse:0.197614 eval-rmspe:0.199046	eval-rmse:0.197614	train-rmspe:0.199046
[179]	train-rmse:0.197078 eval-rmspe:0.198828	eval-rmse:0.197078	train-rmspe:0.198828
[180]	train-rmse:0.196593 eval-rmspe:0.198692	eval-rmse:0.196593	train-rmspe:0.198692
[181]	train-rmse:0.195962 eval-rmspe:0.198389	eval-rmse:0.195962	train-rmspe:0.198389
[182]	train-rmse:0.195337 eval-rmspe:0.198004	eval-rmse:0.195337	train-rmspe:0.198004
[183]	train-rmse:0.194333 eval-rmspe:0.197242	eval-rmse:0.194333	train-rmspe:0.197242

[184]	train-rmse:0.193262	eval-rmse:0.193262	train-rmspe:0.19636
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[185]	train-rmse:0.192829	eval-rmse:0.192829	train-rmspe:0.196177
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[186]	train-rmse:0.192329	eval-rmse:0.192329	train-rmspe:0.195943
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[187]	train-rmse:0.190663	eval-rmse:0.190663	train-rmspe:0.194399
	eval-rmspe:0.194399		
[188]	train-rmse:0.189684	eval-rmse:0.189684	train-rmspe:0.193498
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[189]	train-rmse:0.188583	eval-rmse:0.188583	train-rmspe:0.192448
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[190]	train-rmse:0.187801	eval-rmse:0.187801	train-rmspe:0.191889
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[191]	train-rmse:0.187453	eval-rmse:0.187453	train-rmspe:0.191732
	eval-rmspe:0.191732		
[192]	train-rmse:0.187103	eval-rmse:0.187103	train-rmspe:0.191563
	eval-rmspe:0.191563		
[193]	train-rmse:0.186216	eval-rmse:0.186216	train-rmspe:0.190799
	eval-rmspe:0.190799		
[194]	train-rmse:0.185883	eval-rmse:0.185883	train-rmspe:0.190641
	eval-rmspe:0.190641		
[195]	train-rmse:0.185169	eval-rmse:0.185169	train-rmspe:0.190042
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[196]	train-rmse:0.184784	eval-rmse:0.184784	train-rmspe:0.189814
	eval-rmspe:0.189814		
[197]	train-rmse:0.184307	eval-rmse:0.184307	train-rmspe:0.189455
	eval-rmspe:0.189455		
[198]	train-rmse:0.183839	eval-rmse:0.183839	train-rmspe:0.189127
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[199]	train-rmse:0.183488	eval-rmse:0.183488	train-rmspe:0.188948
	eval-rmspe:0.188948		
[200]	train-rmse:0.182041	eval-rmse:0.182041	train-rmspe:0.187587
	eval-rmspe:0.187587		
[201]	train-rmse:0.181581	eval-rmse:0.181581	train-rmspe:0.187281
	eval-rmspe:0.187281		
[202]	train-rmse:0.181394	eval-rmse:0.181394	train-rmspe:0.187243
	eval-rmspe:0.187243		
[203]	train-rmse:0.180201	eval-rmse:0.180201	train-rmspe:0.186091
	eval-rmspe:0.186091		
[204]	train-rmse:0.179815	eval-rmse:0.179815	train-rmspe:0.185815
	eval-rmspe:0.185815		
[205]	train-rmse:0.179639	eval-rmse:0.179639	train-rmspe:0.185787
	eval-rmspe:0.185787		
[206]	train-rmse:0.178932	eval-rmse:0.178932	train-rmspe:0.185127
	eval-rmspe:0.185127		
[207]	train-rmse:0.177513	eval-rmse:0.177513	train-rmspe:0.183699
	eval-rmspe:0.183699		

[208]	train-rmse:0.176796 eval-rmspe:0.183074	eval-rmse:0.176796	train-rmspe:0.183074
[209]	train-rmse:0.175573 eval-rmspe:0.181898	eval-rmse:0.175573	train-rmspe:0.181898
[210]	train-rmse:0.175217 eval-rmspe:0.181627	eval-rmse:0.175217	train-rmspe:0.181627
[211]	train-rmse:0.1745 eval-rmspe:0.180964	eval-rmse:0.1745	train-rmspe:0.180964
[212]	train-rmse:0.173214 eval-rmspe:0.179653	eval-rmse:0.173214	train-rmspe:0.179653
[213]	train-rmse:0.172433 eval-rmspe:0.178946	eval-rmse:0.172433	train-rmspe:0.178946
[214]	train-rmse:0.172185 eval-rmspe:0.178759	eval-rmse:0.172185	train-rmspe:0.178759
[215]	train-rmse:0.172001 eval-rmspe:0.178681	eval-rmse:0.172001	train-rmspe:0.178681
[216]	train-rmse:0.171717 eval-rmspe:0.178468	eval-rmse:0.171717	train-rmspe:0.178468
[217]	train-rmse:0.170709 eval-rmspe:0.177481	eval-rmse:0.170709	train-rmspe:0.177481
[218]	train-rmse:0.169593 eval-rmspe:0.176358	eval-rmse:0.169593	train-rmspe:0.176358
[219]	train-rmse:0.169233 eval-rmspe:0.176073	eval-rmse:0.169233	train-rmspe:0.176073
[220]	train-rmse:0.168783 eval-rmspe:0.175655	eval-rmse:0.168783	train-rmspe:0.175655
[221]	train-rmse:0.168504 eval-rmspe:0.175444	eval-rmse:0.168504	train-rmspe:0.175444
[222]	train-rmse:0.168055 eval-rmspe:0.175068	eval-rmse:0.168055	train-rmspe:0.175068
[223]	train-rmse:0.167355 eval-rmspe:0.174393	eval-rmse:0.167355	train-rmspe:0.174393
[224]	train-rmse:0.166316 eval-rmspe:0.173336	eval-rmse:0.166316	train-rmspe:0.173336
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[559]	train-rmse:0.082285 eval-rmspe:0.084623	eval-rmse:0.082285	train-rmspe:0.084623
[560]	train-rmse:0.082268 eval-rmspe:0.084606	eval-rmse:0.082268	train-rmspe:0.084606
[561]	train-rmse:0.082167 eval-rmspe:0.0845	eval-rmse:0.082167	train-rmspe:0.0845
[562]	train-rmse:0.082042 eval-rmspe:0.084369	eval-rmse:0.082042	train-rmspe:0.084369
[563]	train-rmse:0.081961 eval-rmspe:0.084287	eval-rmse:0.081961	train-rmspe:0.084287
[564]	train-rmse:0.081866 eval-rmspe:0.084189	eval-rmse:0.081866	train-rmspe:0.084189
[565]	train-rmse:0.08171 eval-rmspe:0.083991	eval-rmse:0.08171	train-rmspe:0.083991
[566]	train-rmse:0.081641 eval-rmspe:0.083922	eval-rmse:0.081641	train-rmspe:0.083922
[567]	train-rmse:0.081455 eval-rmspe:0.083696	eval-rmse:0.081455	train-rmspe:0.083696

[568]	train-rmse:0.081379	eval-rmse:0.081379	train-rmspe:0.08362
	eval-rmspe:0.08362		
[569]	train-rmse:0.081283	eval-rmse:0.081283	train-rmspe:0.083521
	eval-rmspe:0.083521		
[570]	train-rmse:0.081216	eval-rmse:0.081216	train-rmspe:0.083451
	eval-rmspe:0.083451		
[571]	train-rmse:0.081034	eval-rmse:0.081034	train-rmspe:0.08325
	eval-rmspe:0.08325		
[572]	train-rmse:0.080879	eval-rmse:0.080879	train-rmspe:0.083077
	eval-rmspe:0.083077		
[573]	train-rmse:0.080842	eval-rmse:0.080842	train-rmspe:0.083039
	eval-rmspe:0.083039		
[574]	train-rmse:0.080701	eval-rmse:0.080701	train-rmspe:0.08289
	eval-rmspe:0.08289		
[575]	train-rmse:0.080675	eval-rmse:0.080675	train-rmspe:0.082863
	eval-rmspe:0.082863		
[576]	train-rmse:0.080571	eval-rmse:0.080571	train-rmspe:0.082754
	eval-rmspe:0.082754		
[577]	train-rmse:0.080517	eval-rmse:0.080517	train-rmspe:0.0827
	eval-rmspe:0.0827		
[578]	train-rmse:0.080386	eval-rmse:0.080386	train-rmspe:0.082538
	eval-rmspe:0.082538		
[579]	train-rmse:0.080303	eval-rmse:0.080303	train-rmspe:0.082447
	eval-rmspe:0.082447		
[580]	train-rmse:0.080254	eval-rmse:0.080254	train-rmspe:0.082398
	eval-rmspe:0.082398		
[581]	train-rmse:0.080133	eval-rmse:0.080133	train-rmspe:0.08227
	eval-rmspe:0.08227		
[582]	train-rmse:0.08	eval-rmse:0.08	train-rmspe:0.082118
	eval-rmspe:0.082118		
[583]	train-rmse:0.079889	eval-rmse:0.079889	train-rmspe:0.082001
	eval-rmspe:0.082001		
[584]	train-rmse:0.079805	eval-rmse:0.079805	train-rmspe:0.081911
	eval-rmspe:0.081911		
[585]	train-rmse:0.079701	eval-rmse:0.079701	train-rmspe:0.081796
	eval-rmspe:0.081796		
[586]	train-rmse:0.079644	eval-rmse:0.079644	train-rmspe:0.081738
	eval-rmspe:0.081738		
[587]	train-rmse:0.07951	eval-rmse:0.07951	train-rmspe:0.081577
	eval-rmspe:0.081577		
[588]	train-rmse:0.079341	eval-rmse:0.079341	train-rmspe:0.081395
	eval-rmspe:0.081395		
[589]	train-rmse:0.079267	eval-rmse:0.079267	train-rmspe:0.081313
	eval-rmspe:0.081313		
[590]	train-rmse:0.079171	eval-rmse:0.079171	train-rmspe:0.08121
	eval-rmspe:0.08121		
[591]	train-rmse:0.079062	eval-rmse:0.079062	train-rmspe:0.0811
	eval-rmspe:0.0811		

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[592]   train-rmse:0.078944   eval-rmse:0.078944   train-rmspe:0.080978
eval-rmspe:0.080978
[593]   train-rmse:0.078847   eval-rmse:0.078847   train-rmspe:0.080874
eval-rmspe:0.080874
[594]   train-rmse:0.078674   eval-rmse:0.078674   train-rmspe:0.080682
eval-rmspe:0.080682
[595]   train-rmse:0.07865   eval-rmse:0.07865   train-rmspe:0.080658
eval-rmspe:0.080658
[596]   train-rmse:0.078599   eval-rmse:0.078599   train-rmspe:0.080606
eval-rmspe:0.080606
[597]   train-rmse:0.078478   eval-rmse:0.078478   train-rmspe:0.080475
eval-rmspe:0.080475
[598]   train-rmse:0.078404   eval-rmse:0.078404   train-rmspe:0.080402
eval-rmspe:0.080402
[599]   train-rmse:0.078323   eval-rmse:0.078323   train-rmspe:0.080316
eval-rmspe:0.080316
round 4 end
round 5:
[0]     train-rmse:8.02734   eval-rmse:8.02734   train-rmspe:0.999811
eval-rmspe:0.999811
Multiple eval metrics have been passed: 'eval-rmspe' will be used for early
stopping.

```

Will train until eval-rmspe hasn't improved in 100 rounds.

```

[1]     train-rmse:7.7871   eval-rmse:7.7871   train-rmspe:0.999713
eval-rmspe:0.999713
[2]     train-rmse:7.55403   eval-rmse:7.55403   train-rmspe:0.999594
eval-rmspe:0.999594
[3]     train-rmse:7.32795   eval-rmse:7.32795   train-rmspe:0.999448
eval-rmspe:0.999448
[4]     train-rmse:7.10869   eval-rmse:7.10869   train-rmspe:0.999272
eval-rmspe:0.999272
[5]     train-rmse:6.89606   eval-rmse:6.89606   train-rmspe:0.999059
eval-rmspe:0.999059
[6]     train-rmse:6.6898   eval-rmse:6.6898   train-rmspe:0.998806
eval-rmspe:0.998806
[7]     train-rmse:6.48972   eval-rmse:6.48972   train-rmspe:0.998504
eval-rmspe:0.998504
[8]     train-rmse:6.29564   eval-rmse:6.29564   train-rmspe:0.998149
eval-rmspe:0.998149
[9]     train-rmse:6.10743   eval-rmse:6.10743   train-rmspe:0.997732
eval-rmspe:0.997732
[10]    train-rmse:5.92486   eval-rmse:5.92486   train-rmspe:0.997245
eval-rmspe:0.997245
[11]    train-rmse:5.7478   eval-rmse:5.7478   train-rmspe:0.996681
eval-rmspe:0.996681
[12]    train-rmse:5.57606   eval-rmse:5.57606   train-rmspe:0.99603
eval-rmspe:0.99603

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[13]	train-rmse:5.40947	eval-rmse:5.40947	train-rmspe:0.995281
	eval-rmspe:0.995281		
[14]	train-rmse:5.24791	eval-rmse:5.24791	train-rmspe:0.994426
	eval-rmspe:0.994426		
[15]	train-rmse:5.09121	eval-rmse:5.09121	train-rmspe:0.993455
	eval-rmspe:0.993455		
[16]	train-rmse:4.93927	eval-rmse:4.93927	train-rmspe:0.992355
	eval-rmspe:0.992355		
[17]	train-rmse:4.79188	eval-rmse:4.79188	train-rmspe:0.991119
	eval-rmspe:0.991119		
[18]	train-rmse:4.64897	eval-rmse:4.64897	train-rmspe:0.989734
	eval-rmspe:0.989734		
[19]	train-rmse:4.51032	eval-rmse:4.51032	train-rmspe:0.988189
	eval-rmspe:0.988189		
[20]	train-rmse:4.37586	eval-rmse:4.37586	train-rmspe:0.986471
	eval-rmspe:0.986471		
[21]	train-rmse:4.24546	eval-rmse:4.24546	train-rmspe:0.98457
	eval-rmspe:0.98457		
[22]	train-rmse:4.11899	eval-rmse:4.11899	train-rmspe:0.982476
	eval-rmspe:0.982476		
[23]	train-rmse:3.9963	eval-rmse:3.9963	train-rmspe:0.980174
	eval-rmspe:0.980174		
[24]	train-rmse:3.87737	eval-rmse:3.87737	train-rmspe:0.977652
	eval-rmspe:0.977652		
[25]	train-rmse:3.76204	eval-rmse:3.76204	train-rmspe:0.974904
	eval-rmspe:0.974904		
[26]	train-rmse:3.65017	eval-rmse:3.65017	train-rmspe:0.971925
	eval-rmspe:0.971925		
[27]	train-rmse:3.54169	eval-rmse:3.54169	train-rmspe:0.9687
	eval-rmspe:0.9687		
[28]	train-rmse:3.43648	eval-rmse:3.43648	train-rmspe:0.965222
	eval-rmspe:0.965222		
[29]	train-rmse:3.33448	eval-rmse:3.33448	train-rmspe:0.961476
	eval-rmspe:0.961476		
[30]	train-rmse:3.23554	eval-rmse:3.23554	train-rmspe:0.957462
	eval-rmspe:0.957462		
[31]	train-rmse:3.1396	eval-rmse:3.1396	train-rmspe:0.953188
	eval-rmspe:0.953188		
[32]	train-rmse:3.04656	eval-rmse:3.04656	train-rmspe:0.948629
	eval-rmspe:0.948629		
[33]	train-rmse:2.95635	eval-rmse:2.95635	train-rmspe:0.943779
	eval-rmspe:0.943779		
[34]	train-rmse:2.86884	eval-rmse:2.86884	train-rmspe:0.938645
	eval-rmspe:0.938645		
[35]	train-rmse:2.78397	eval-rmse:2.78397	train-rmspe:0.933224
	eval-rmspe:0.933224		
[36]	train-rmse:2.70173	eval-rmse:2.70173	train-rmspe:0.927509
	eval-rmspe:0.927509		

[37]	train-rmse:2.62195 eval-rmspe:0.921518	eval-rmse:2.62195	train-rmspe:0.921518
[38]	train-rmse:2.54466 eval-rmspe:0.915222	eval-rmse:2.54466	train-rmspe:0.915222
[39]	train-rmse:2.46959 eval-rmspe:0.908649	eval-rmse:2.46959	train-rmspe:0.908649
[40]	train-rmse:2.3969 eval-rmspe:0.901801	eval-rmse:2.3969	train-rmspe:0.901801
[41]	train-rmse:2.32634 eval-rmspe:0.894688	eval-rmse:2.32634	train-rmspe:0.894688
[42]	train-rmse:2.25794 eval-rmspe:0.887306	eval-rmse:2.25794	train-rmspe:0.887306
[43]	train-rmse:2.19162 eval-rmspe:0.879664	eval-rmse:2.19162	train-rmspe:0.879664
[44]	train-rmse:2.12738 eval-rmspe:0.871707	eval-rmse:2.12738	train-rmspe:0.871707
[45]	train-rmse:2.06503 eval-rmspe:0.863543	eval-rmse:2.06503	train-rmspe:0.863543
[46]	train-rmse:2.00466 eval-rmspe:0.855088	eval-rmse:2.00466	train-rmspe:0.855088
[47]	train-rmse:1.9461 eval-rmspe:0.846407	eval-rmse:1.9461	train-rmspe:0.846407
[48]	train-rmse:1.88931 eval-rmspe:0.837505	eval-rmse:1.88931	train-rmspe:0.837505
[49]	train-rmse:1.83431 eval-rmspe:0.828396	eval-rmse:1.83431	train-rmspe:0.828396
[50]	train-rmse:1.78087 eval-rmspe:0.81913	eval-rmse:1.78087	train-rmspe:0.81913
[51]	train-rmse:1.72908 eval-rmspe:0.80965	eval-rmse:1.72908	train-rmspe:0.80965
[52]	train-rmse:1.67893 eval-rmspe:0.799952	eval-rmse:1.67893	train-rmspe:0.799952
[53]	train-rmse:1.63013 eval-rmspe:0.790161	eval-rmse:1.63013	train-rmspe:0.790161
[54]	train-rmse:1.58296 eval-rmspe:0.780159	eval-rmse:1.58296	train-rmspe:0.780159
[55]	train-rmse:1.53727 eval-rmspe:0.770034	eval-rmse:1.53727	train-rmspe:0.770034
[56]	train-rmse:1.49296 eval-rmspe:0.759797	eval-rmse:1.49296	train-rmspe:0.759797
[57]	train-rmse:1.45002 eval-rmspe:0.749422	eval-rmse:1.45002	train-rmspe:0.749422
[58]	train-rmse:1.40836 eval-rmspe:0.738926	eval-rmse:1.40836	train-rmspe:0.738926
[59]	train-rmse:1.36812 eval-rmspe:0.728325	eval-rmse:1.36812	train-rmspe:0.728325
[60]	train-rmse:1.32909 eval-rmspe:0.717657	eval-rmse:1.32909	train-rmspe:0.717657

[61]	train-rmse:1.29127	eval-rmse:1.29127	train-rmspe:0.706941
	eval-rmspe:0.706941		
[62]	train-rmse:1.25464	eval-rmse:1.25464	train-rmspe:0.696179
	eval-rmspe:0.696179		
[63]	train-rmse:1.21911	eval-rmse:1.21911	train-rmspe:0.685404
	eval-rmspe:0.685404		
[64]	train-rmse:1.18485	eval-rmse:1.18485	train-rmspe:0.674552
	eval-rmspe:0.674552		
[65]	train-rmse:1.15128	eval-rmse:1.15128	train-rmspe:0.663795
	eval-rmspe:0.663795		
[66]	train-rmse:1.11897	eval-rmse:1.11897	train-rmspe:0.652984
	eval-rmspe:0.652984		
[67]	train-rmse:1.08751	eval-rmse:1.08751	train-rmspe:0.642226
	eval-rmspe:0.642226		
[68]	train-rmse:1.05705	eval-rmse:1.05705	train-rmspe:0.631484
	eval-rmspe:0.631484		
[69]	train-rmse:1.0278	eval-rmse:1.0278	train-rmspe:0.62071
	eval-rmspe:0.62071		
[70]	train-rmse:0.999176	eval-rmse:0.999176	train-rmspe:0.610038
	eval-rmspe:0.610038		
[71]	train-rmse:0.971388	eval-rmse:0.971388	train-rmspe:0.599454
	eval-rmspe:0.599454		
[72]	train-rmse:0.944232	eval-rmse:0.944232	train-rmspe:0.588944
	eval-rmspe:0.588944		
[73]	train-rmse:0.918248	eval-rmse:0.918248	train-rmspe:0.578489
	eval-rmspe:0.578489		
[74]	train-rmse:0.893182	eval-rmse:0.893182	train-rmspe:0.568093
	eval-rmspe:0.568093		
[75]	train-rmse:0.868815	eval-rmse:0.868815	train-rmspe:0.557803
	eval-rmspe:0.557803		
[76]	train-rmse:0.84541	eval-rmse:0.84541	train-rmspe:0.547635
	eval-rmspe:0.547635		
[77]	train-rmse:0.822844	eval-rmse:0.822844	train-rmspe:0.53759
	eval-rmspe:0.53759		
[78]	train-rmse:0.80033	eval-rmse:0.80033	train-rmspe:0.527662
	eval-rmspe:0.527662		
[79]	train-rmse:0.779019	eval-rmse:0.779019	train-rmspe:0.517825
	eval-rmspe:0.517825		
[80]	train-rmse:0.758331	eval-rmse:0.758331	train-rmspe:0.508176
	eval-rmspe:0.508176		
[81]	train-rmse:0.738373	eval-rmse:0.738373	train-rmspe:0.498631
	eval-rmspe:0.498631		
[82]	train-rmse:0.718776	eval-rmse:0.718776	train-rmspe:0.489217
	eval-rmspe:0.489217		
[83]	train-rmse:0.700004	eval-rmse:0.700004	train-rmspe:0.479968
	eval-rmspe:0.479968		
[84]	train-rmse:0.681861	eval-rmse:0.681861	train-rmspe:0.470886
	eval-rmspe:0.470886		

[85]	train-rmse:0.664276 eval-rmspe:0.46193	eval-rmse:0.664276	train-rmspe:0.46193
[86]	train-rmse:0.647202 eval-rmspe:0.453175	eval-rmse:0.647202	train-rmspe:0.453175
[87]	train-rmse:0.630483 eval-rmspe:0.444568	eval-rmse:0.630483	train-rmspe:0.444568
[88]	train-rmse:0.614595 eval-rmspe:0.436132	eval-rmse:0.614595	train-rmspe:0.436132
[89]	train-rmse:0.598704 eval-rmspe:0.427802	eval-rmse:0.598704	train-rmspe:0.427802
[90]	train-rmse:0.583868 eval-rmspe:0.419744	eval-rmse:0.583868	train-rmspe:0.419744
[91]	train-rmse:0.569494 eval-rmspe:0.411867	eval-rmse:0.569494	train-rmspe:0.411867
[92]	train-rmse:0.555734 eval-rmspe:0.404183	eval-rmse:0.555734	train-rmspe:0.404183
[93]	train-rmse:0.542204 eval-rmspe:0.396636	eval-rmse:0.542204	train-rmspe:0.396636
[94]	train-rmse:0.529211 eval-rmspe:0.389299	eval-rmse:0.529211	train-rmspe:0.389299
[95]	train-rmse:0.516729 eval-rmspe:0.382163	eval-rmse:0.516729	train-rmspe:0.382163
[96]	train-rmse:0.504523 eval-rmspe:0.375173	eval-rmse:0.504523	train-rmspe:0.375173
[97]	train-rmse:0.493015 eval-rmspe:0.368457	eval-rmse:0.493015	train-rmspe:0.368457
[98]	train-rmse:0.481856 eval-rmspe:0.36191	eval-rmse:0.481856	train-rmspe:0.36191
[99]	train-rmse:0.471048 eval-rmspe:0.355555	eval-rmse:0.471048	train-rmspe:0.355555
[100]	train-rmse:0.460643 eval-rmspe:0.349421	eval-rmse:0.460643	train-rmspe:0.349421
[101]	train-rmse:0.450684 eval-rmspe:0.34347	eval-rmse:0.450684	train-rmspe:0.34347
[102]	train-rmse:0.441002 eval-rmspe:0.337691	eval-rmse:0.441002	train-rmspe:0.337691
[103]	train-rmse:0.431526 eval-rmspe:0.332039	eval-rmse:0.431526	train-rmspe:0.332039
[104]	train-rmse:0.422083 eval-rmspe:0.326436	eval-rmse:0.422083	train-rmspe:0.326436
[105]	train-rmse:0.413608 eval-rmspe:0.321322	eval-rmse:0.413608	train-rmspe:0.321322
[106]	train-rmse:0.405215 eval-rmspe:0.316225	eval-rmse:0.405215	train-rmspe:0.316225
[107]	train-rmse:0.397121 eval-rmspe:0.311324	eval-rmse:0.397121	train-rmspe:0.311324
[108]	train-rmse:0.389391 eval-rmspe:0.306642	eval-rmse:0.389391	train-rmspe:0.306642

[109]	train-rmse:0.382096	eval-rmse:0.382096	train-rmspe:0.302223
	eval-rmspe:0.302223		
[110]	train-rmse:0.37499	eval-rmse:0.37499	train-rmspe:0.297956
	eval-rmspe:0.297956		
[111]	train-rmse:0.367452	eval-rmse:0.367452	train-rmspe:0.293381
	eval-rmspe:0.293381		
[112]	train-rmse:0.360454	eval-rmse:0.360454	train-rmspe:0.289167
	eval-rmspe:0.289167		
[113]	train-rmse:0.353612	eval-rmse:0.353612	train-rmspe:0.285034
	eval-rmspe:0.285034		
[114]	train-rmse:0.347643	eval-rmse:0.347643	train-rmspe:0.281467
	eval-rmspe:0.281467		
[115]	train-rmse:0.341512	eval-rmse:0.341512	train-rmspe:0.277785
	eval-rmspe:0.277785		
[116]	train-rmse:0.335545	eval-rmse:0.335545	train-rmspe:0.274211
	eval-rmspe:0.274211		
[117]	train-rmse:0.32993	eval-rmse:0.32993	train-rmspe:0.270831
	eval-rmspe:0.270831		
[118]	train-rmse:0.324316	eval-rmse:0.324316	train-rmspe:0.267402
	eval-rmspe:0.267402		
[119]	train-rmse:0.319139	eval-rmse:0.319139	train-rmspe:0.264325
	eval-rmspe:0.264325		
[120]	train-rmse:0.314515	eval-rmse:0.314515	train-rmspe:0.261655
	eval-rmspe:0.261655		
[121]	train-rmse:0.308978	eval-rmse:0.308978	train-rmspe:0.258338
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[122]	train-rmse:0.304213	eval-rmse:0.304213	train-rmspe:0.255484
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[123]	train-rmse:0.299992	eval-rmse:0.299992	train-rmspe:0.253094
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[124]	train-rmse:0.295435	eval-rmse:0.295435	train-rmspe:0.250335
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[126]	train-rmse:0.287541	eval-rmse:0.287541	train-rmspe:0.245821
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[127]	train-rmse:0.28369	eval-rmse:0.28369	train-rmspe:0.243619
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[129]	train-rmse:0.277174	eval-rmse:0.277174	train-rmspe:0.240124
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[130]	train-rmse:0.273117	eval-rmse:0.273117	train-rmspe:0.237751
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[131]	train-rmse:0.269802	eval-rmse:0.269802	train-rmspe:0.235949
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[132]	train-rmse:0.266896	eval-rmse:0.266896	train-rmspe:0.234464
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[133]	train-rmse:0.264029 eval-rmspe:0.232948	eval-rmse:0.264029	train-rmspe:0.232948
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[138]	train-rmse:0.250477 eval-rmspe:0.22562	eval-rmse:0.250477	train-rmspe:0.22562
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[149]	train-rmse:0.228749 eval-rmspe:0.214846	eval-rmse:0.228749	train-rmspe:0.214846
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[153]	train-rmse:0.222996 eval-rmspe:0.212087	eval-rmse:0.222996	train-rmspe:0.212087
[154]	train-rmse:0.221475 eval-rmspe:0.211288	eval-rmse:0.221475	train-rmspe:0.211288
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[163]	train-rmse:0.2106 eval-rmspe:0.205865	eval-rmse:0.2106	train-rmspe:0.205865
[164]	train-rmse:0.209783 eval-rmspe:0.205576	eval-rmse:0.209783	train-rmspe:0.205576
[165]	train-rmse:0.20863 eval-rmspe:0.204916	eval-rmse:0.20863	train-rmspe:0.204916
[166]	train-rmse:0.207725 eval-rmspe:0.20452	eval-rmse:0.207725	train-rmspe:0.20452
[167]	train-rmse:0.206327 eval-rmspe:0.203522	eval-rmse:0.206327	train-rmspe:0.203522
[168]	train-rmse:0.205035 eval-rmspe:0.202633	eval-rmse:0.205035	train-rmspe:0.202633
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[170]	train-rmse:0.202531 eval-rmspe:0.200969	eval-rmse:0.202531	train-rmspe:0.200969
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[172]	train-rmse:0.200158 eval-rmspe:0.199369	eval-rmse:0.200158	train-rmspe:0.199369
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[174]	train-rmse:0.198682 eval-rmspe:0.198598	eval-rmse:0.198682	train-rmspe:0.198598
[175]	train-rmse:0.198234 eval-rmspe:0.198521	eval-rmse:0.198234	train-rmspe:0.198521
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[182]	train-rmse:0.193184 eval-rmspe:0.195429	eval-rmse:0.193184	train-rmspe:0.195429
[183]	train-rmse:0.192541 eval-rmspe:0.195038	eval-rmse:0.192541	train-rmspe:0.195038
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[185]	train-rmse:0.191224 eval-rmspe:0.194256	eval-rmse:0.191224	train-rmspe:0.194256
[186]	train-rmse:0.190565 eval-rmspe:0.193802	eval-rmse:0.190565	train-rmspe:0.193802
[187]	train-rmse:0.189498 eval-rmspe:0.192939	eval-rmse:0.189498	train-rmspe:0.192939
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[189]	train-rmse:0.187497 eval-rmspe:0.191293	eval-rmse:0.187497	train-rmspe:0.191293
[190]	train-rmse:0.186721 eval-rmspe:0.190697	eval-rmse:0.186721	train-rmspe:0.190697
[191]	train-rmse:0.186256 eval-rmspe:0.1904	eval-rmse:0.186256	train-rmspe:0.1904
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[194]	train-rmse:0.18491 eval-rmspe:0.189596	eval-rmse:0.18491	train-rmspe:0.189596
[195]	train-rmse:0.184054 eval-rmspe:0.18888	eval-rmse:0.184054	train-rmspe:0.18888
[196]	train-rmse:0.183508 eval-rmspe:0.188482	eval-rmse:0.183508	train-rmspe:0.188482
[197]	train-rmse:0.182368 eval-rmspe:0.187384	eval-rmse:0.182368	train-rmspe:0.187384
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[201]	train-rmse:0.17959 eval-rmspe:0.185139	eval-rmse:0.17959	train-rmspe:0.185139
[202]	train-rmse:0.178835 eval-rmspe:0.184533	eval-rmse:0.178835	train-rmspe:0.184533
[203]	train-rmse:0.178386 eval-rmspe:0.184204	eval-rmse:0.178386	train-rmspe:0.184204
[204]	train-rmse:0.177416 eval-rmspe:0.183263	eval-rmse:0.177416	train-rmspe:0.183263

[205]	train-rmse:0.176589 eval-rmspe:0.182532	eval-rmse:0.176589	train-rmspe:0.182532
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[207]	train-rmse:0.175864 eval-rmspe:0.181987	eval-rmse:0.175864	train-rmspe:0.181987
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[211]	train-rmse:0.172446 eval-rmspe:0.17881	eval-rmse:0.172446	train-rmspe:0.17881
[212]	train-rmse:0.17219 eval-rmspe:0.178591	eval-rmse:0.17219	train-rmspe:0.178591
[213]	train-rmse:0.171707 eval-rmspe:0.178215	eval-rmse:0.171707	train-rmspe:0.178215
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[215]	train-rmse:0.170528 eval-rmspe:0.177136	eval-rmse:0.170528	train-rmspe:0.177136
[216]	train-rmse:0.170177 eval-rmspe:0.17684	eval-rmse:0.170177	train-rmspe:0.17684
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[225]	train-rmse:0.165604 eval-rmspe:0.1727	eval-rmse:0.165604	train-rmspe:0.1727
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[227]	train-rmse:0.164726 eval-rmspe:0.171892	eval-rmse:0.164726	train-rmspe:0.171892
[228]	train-rmse:0.164427 eval-rmspe:0.171628	eval-rmse:0.164427	train-rmspe:0.171628

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[249]	train-rmse:0.154302 eval-rmspe:0.161622	eval-rmse:0.154302	train-rmspe:0.161622
[250]	train-rmse:0.154058 eval-rmspe:0.161379	eval-rmse:0.154058	train-rmspe:0.161379
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[456]	train-rmse:0.099345 eval-rmspe:0.103618	eval-rmse:0.099345	train-rmspe:0.103618
[457]	train-rmse:0.099057 eval-rmspe:0.103307	eval-rmse:0.099057	train-rmspe:0.103307
[458]	train-rmse:0.098882 eval-rmspe:0.103118	eval-rmse:0.098882	train-rmspe:0.103118
[459]	train-rmse:0.098712 eval-rmspe:0.102942	eval-rmse:0.098712	train-rmspe:0.102942
[460]	train-rmse:0.098457 eval-rmspe:0.102593	eval-rmse:0.098457	train-rmspe:0.102593
[461]	train-rmse:0.097983 eval-rmspe:0.102105	eval-rmse:0.097983	train-rmspe:0.102105
[462]	train-rmse:0.097891 eval-rmspe:0.101983	eval-rmse:0.097891	train-rmspe:0.101983
[463]	train-rmse:0.097672 eval-rmspe:0.101739	eval-rmse:0.097672	train-rmspe:0.101739
[464]	train-rmse:0.097352 eval-rmspe:0.101395	eval-rmse:0.097352	train-rmspe:0.101395
[465]	train-rmse:0.097305 eval-rmspe:0.101346	eval-rmse:0.097305	train-rmspe:0.101346
[466]	train-rmse:0.097159 eval-rmspe:0.101171	eval-rmse:0.097159	train-rmspe:0.101171
[467]	train-rmse:0.097043 eval-rmspe:0.101049	eval-rmse:0.097043	train-rmspe:0.101049
[468]	train-rmse:0.096925 eval-rmspe:0.100928	eval-rmse:0.096925	train-rmspe:0.100928

[469]	train-rmse:0.096715 eval-rmspe:0.100639	eval-rmse:0.096715	train-rmspe:0.100639
[470]	train-rmse:0.096624 eval-rmspe:0.100542	eval-rmse:0.096624	train-rmspe:0.100542
[471]	train-rmse:0.09653 eval-rmspe:0.100443	eval-rmse:0.09653	train-rmspe:0.100443
[472]	train-rmse:0.096398 eval-rmspe:0.100306	eval-rmse:0.096398	train-rmspe:0.100306
[473]	train-rmse:0.096247 eval-rmspe:0.10013	eval-rmse:0.096247	train-rmspe:0.10013
[474]	train-rmse:0.096027 eval-rmspe:0.099911	eval-rmse:0.096027	train-rmspe:0.099911
[475]	train-rmse:0.095761 eval-rmspe:0.099619	eval-rmse:0.095761	train-rmspe:0.099619
[476]	train-rmse:0.095592 eval-rmspe:0.099444	eval-rmse:0.095592	train-rmspe:0.099444
[477]	train-rmse:0.095488 eval-rmspe:0.099325	eval-rmse:0.095488	train-rmspe:0.099325
[478]	train-rmse:0.09526 eval-rmspe:0.099083	eval-rmse:0.09526	train-rmspe:0.099083
[479]	train-rmse:0.095112 eval-rmspe:0.098921	eval-rmse:0.095112	train-rmspe:0.098921
[480]	train-rmse:0.094999 eval-rmspe:0.09881	eval-rmse:0.094999	train-rmspe:0.09881
[481]	train-rmse:0.09476 eval-rmspe:0.098554	eval-rmse:0.09476	train-rmspe:0.098554
[482]	train-rmse:0.094641 eval-rmspe:0.09843	eval-rmse:0.094641	train-rmspe:0.09843
[483]	train-rmse:0.094584 eval-rmspe:0.098372	eval-rmse:0.094584	train-rmspe:0.098372
[484]	train-rmse:0.094377 eval-rmspe:0.098155	eval-rmse:0.094377	train-rmspe:0.098155
[485]	train-rmse:0.094335 eval-rmspe:0.098108	eval-rmse:0.094335	train-rmspe:0.098108
[486]	train-rmse:0.094126 eval-rmspe:0.097895	eval-rmse:0.094126	train-rmspe:0.097895
[487]	train-rmse:0.093996 eval-rmspe:0.097762	eval-rmse:0.093996	train-rmspe:0.097762
[488]	train-rmse:0.093775 eval-rmspe:0.09752	eval-rmse:0.093775	train-rmspe:0.09752
[489]	train-rmse:0.09349 eval-rmspe:0.097209	eval-rmse:0.09349	train-rmspe:0.097209
[490]	train-rmse:0.093303 eval-rmspe:0.09701	eval-rmse:0.093303	train-rmspe:0.09701
[491]	train-rmse:0.093208 eval-rmspe:0.096911	eval-rmse:0.093208	train-rmspe:0.096911
[492]	train-rmse:0.093008 eval-rmspe:0.096683	eval-rmse:0.093008	train-rmspe:0.096683

[493] train-rmse:0.092893 eval-rmspe:0.096569	eval-rmse:0.092893	train-rmspe:0.096569
[494] train-rmse:0.092871 eval-rmspe:0.096546	eval-rmse:0.092871	train-rmspe:0.096546
[495] train-rmse:0.09275 eval-rmspe:0.096403	eval-rmse:0.09275	train-rmspe:0.096403
[496] train-rmse:0.092586 eval-rmspe:0.096215	eval-rmse:0.092586	train-rmspe:0.096215
[497] train-rmse:0.092494 eval-rmspe:0.096123	eval-rmse:0.092494	train-rmspe:0.096123
[498] train-rmse:0.092336 eval-rmspe:0.095941	eval-rmse:0.092336	train-rmspe:0.095941
[499] train-rmse:0.092237 eval-rmspe:0.095839	eval-rmse:0.092237	train-rmspe:0.095839
[500] train-rmse:0.092081 eval-rmspe:0.095672	eval-rmse:0.092081	train-rmspe:0.095672
[501] train-rmse:0.091994 eval-rmspe:0.095584	eval-rmse:0.091994	train-rmspe:0.095584
[502] train-rmse:0.091848 eval-rmspe:0.095432	eval-rmse:0.091848	train-rmspe:0.095432
[503] train-rmse:0.091701 eval-rmspe:0.095283	eval-rmse:0.091701	train-rmspe:0.095283
[504] train-rmse:0.091438 eval-rmspe:0.095003	eval-rmse:0.091438	train-rmspe:0.095003
[505] train-rmse:0.091239 eval-rmspe:0.094787	eval-rmse:0.091239	train-rmspe:0.094787
[506] train-rmse:0.091078 eval-rmspe:0.094618	eval-rmse:0.091078	train-rmspe:0.094618
[507] train-rmse:0.090976 eval-rmspe:0.094517	eval-rmse:0.090976	train-rmspe:0.094517
[508] train-rmse:0.090911 eval-rmspe:0.094448	eval-rmse:0.090911	train-rmspe:0.094448
[509] train-rmse:0.090802 eval-rmspe:0.094328	eval-rmse:0.090802	train-rmspe:0.094328
[510] train-rmse:0.090635 eval-rmspe:0.094155	eval-rmse:0.090635	train-rmspe:0.094155
[511] train-rmse:0.090473 eval-rmspe:0.093986	eval-rmse:0.090473	train-rmspe:0.093986
[512] train-rmse:0.090389 eval-rmspe:0.093902	eval-rmse:0.090389	train-rmspe:0.093902
[513] train-rmse:0.090222 eval-rmspe:0.09371	eval-rmse:0.090222	train-rmspe:0.09371
[514] train-rmse:0.090178 eval-rmspe:0.093667	eval-rmse:0.090178	train-rmspe:0.093667
[515] train-rmse:0.090008 eval-rmspe:0.093483	eval-rmse:0.090008	train-rmspe:0.093483
[516] train-rmse:0.089903 eval-rmspe:0.093374	eval-rmse:0.089903	train-rmspe:0.093374

[517]	train-rmse:0.089748 eval-rmspe:0.0932	eval-rmse:0.089748	train-rmspe:0.0932
[518]	train-rmse:0.089656 eval-rmspe:0.093106	eval-rmse:0.089656	train-rmspe:0.093106
[519]	train-rmse:0.089481 eval-rmspe:0.092922	eval-rmse:0.089481	train-rmspe:0.092922
[520]	train-rmse:0.08922 eval-rmspe:0.092636	eval-rmse:0.08922	train-rmspe:0.092636
[521]	train-rmse:0.089034 eval-rmspe:0.092425	eval-rmse:0.089034	train-rmspe:0.092425
[522]	train-rmse:0.088935 eval-rmspe:0.092324	eval-rmse:0.088935	train-rmspe:0.092324
[523]	train-rmse:0.088783 eval-rmspe:0.092126	eval-rmse:0.088783	train-rmspe:0.092126
[524]	train-rmse:0.08866 eval-rmspe:0.091998	eval-rmse:0.08866	train-rmspe:0.091998
[525]	train-rmse:0.088504 eval-rmspe:0.09184	eval-rmse:0.088504	train-rmspe:0.09184
[526]	train-rmse:0.088259 eval-rmspe:0.09158	eval-rmse:0.088259	train-rmspe:0.09158
[527]	train-rmse:0.088115 eval-rmspe:0.09143	eval-rmse:0.088115	train-rmspe:0.09143
[528]	train-rmse:0.087998 eval-rmspe:0.091297	eval-rmse:0.087998	train-rmspe:0.091297
[529]	train-rmse:0.087864 eval-rmspe:0.091162	eval-rmse:0.087864	train-rmspe:0.091162
[530]	train-rmse:0.087747 eval-rmspe:0.09104	eval-rmse:0.087747	train-rmspe:0.09104
[531]	train-rmse:0.087668 eval-rmspe:0.090954	eval-rmse:0.087668	train-rmspe:0.090954
[532]	train-rmse:0.08759 eval-rmspe:0.090871	eval-rmse:0.08759	train-rmspe:0.090871
[533]	train-rmse:0.087408 eval-rmspe:0.090676	eval-rmse:0.087408	train-rmspe:0.090676
[534]	train-rmse:0.087188 eval-rmspe:0.090436	eval-rmse:0.087188	train-rmspe:0.090436
[535]	train-rmse:0.087045 eval-rmspe:0.09029	eval-rmse:0.087045	train-rmspe:0.09029
[536]	train-rmse:0.086905 eval-rmspe:0.090067	eval-rmse:0.086905	train-rmspe:0.090067
[537]	train-rmse:0.086674 eval-rmspe:0.089811	eval-rmse:0.086674	train-rmspe:0.089811
[538]	train-rmse:0.086553 eval-rmspe:0.089677	eval-rmse:0.086553	train-rmspe:0.089677
[539]	train-rmse:0.086347 eval-rmspe:0.089437	eval-rmse:0.086347	train-rmspe:0.089437
[540]	train-rmse:0.086279 eval-rmspe:0.08937	eval-rmse:0.086279	train-rmspe:0.08937

[541]	train-rmse:0.086173 eval-rmspe:0.08925	eval-rmse:0.086173	train-rmspe:0.08925
[542]	train-rmse:0.086075 eval-rmspe:0.089143	eval-rmse:0.086075	train-rmspe:0.089143
[543]	train-rmse:0.086008 eval-rmspe:0.089075	eval-rmse:0.086008	train-rmspe:0.089075
[544]	train-rmse:0.08595 eval-rmspe:0.089016	eval-rmse:0.08595	train-rmspe:0.089016
[545]	train-rmse:0.085793 eval-rmspe:0.088802	eval-rmse:0.085793	train-rmspe:0.088802
[546]	train-rmse:0.085675 eval-rmspe:0.088685	eval-rmse:0.085675	train-rmspe:0.088685
[547]	train-rmse:0.085549 eval-rmspe:0.088545	eval-rmse:0.085549	train-rmspe:0.088545
[548]	train-rmse:0.08542 eval-rmspe:0.08841	eval-rmse:0.08542	train-rmspe:0.08841
[549]	train-rmse:0.085334 eval-rmspe:0.088322	eval-rmse:0.085334	train-rmspe:0.088322
[550]	train-rmse:0.085131 eval-rmspe:0.088099	eval-rmse:0.085131	train-rmspe:0.088099
[551]	train-rmse:0.085035 eval-rmspe:0.088002	eval-rmse:0.085035	train-rmspe:0.088002
[552]	train-rmse:0.084915 eval-rmspe:0.087886	eval-rmse:0.084915	train-rmspe:0.087886
[553]	train-rmse:0.08487 eval-rmspe:0.087841	eval-rmse:0.08487	train-rmspe:0.087841
[554]	train-rmse:0.084652 eval-rmspe:0.087551	eval-rmse:0.084652	train-rmspe:0.087551
[555]	train-rmse:0.084587 eval-rmspe:0.087482	eval-rmse:0.084587	train-rmspe:0.087482
[556]	train-rmse:0.084465 eval-rmspe:0.087347	eval-rmse:0.084465	train-rmspe:0.087347
[557]	train-rmse:0.084329 eval-rmspe:0.087205	eval-rmse:0.084329	train-rmspe:0.087205
[558]	train-rmse:0.084243 eval-rmspe:0.087115	eval-rmse:0.084243	train-rmspe:0.087115
[559]	train-rmse:0.084174 eval-rmspe:0.08704	eval-rmse:0.084174	train-rmspe:0.08704
[560]	train-rmse:0.083987 eval-rmspe:0.086844	eval-rmse:0.083987	train-rmspe:0.086844
[561]	train-rmse:0.083939 eval-rmspe:0.086794	eval-rmse:0.083939	train-rmspe:0.086794
[562]	train-rmse:0.083805 eval-rmspe:0.08665	eval-rmse:0.083805	train-rmspe:0.08665
[563]	train-rmse:0.083721 eval-rmspe:0.086561	eval-rmse:0.083721	train-rmspe:0.086561
[564]	train-rmse:0.083543 eval-rmspe:0.08638	eval-rmse:0.083543	train-rmspe:0.08638

[565]	train-rmse:0.083401 eval-rmspe:0.086225	eval-rmse:0.083401	train-rmspe:0.086225
[566]	train-rmse:0.083213 eval-rmspe:0.086022	eval-rmse:0.083213	train-rmspe:0.086022
[567]	train-rmse:0.083181 eval-rmspe:0.085989	eval-rmse:0.083181	train-rmspe:0.085989
[568]	train-rmse:0.083033 eval-rmspe:0.085836	eval-rmse:0.083033	train-rmspe:0.085836
[569]	train-rmse:0.082899 eval-rmspe:0.085685	eval-rmse:0.082899	train-rmspe:0.085685
[570]	train-rmse:0.082845 eval-rmspe:0.085631	eval-rmse:0.082845	train-rmspe:0.085631
[571]	train-rmse:0.082755 eval-rmspe:0.085538	eval-rmse:0.082755	train-rmspe:0.085538
[572]	train-rmse:0.08269 eval-rmspe:0.085472	eval-rmse:0.08269	train-rmspe:0.085472
[573]	train-rmse:0.082588 eval-rmspe:0.085308	eval-rmse:0.082588	train-rmspe:0.085308
[574]	train-rmse:0.082547 eval-rmspe:0.085265	eval-rmse:0.082547	train-rmspe:0.085265
[575]	train-rmse:0.082306 eval-rmspe:0.085007	eval-rmse:0.082306	train-rmspe:0.085007
[576]	train-rmse:0.082192 eval-rmspe:0.084886	eval-rmse:0.082192	train-rmspe:0.084886
[577]	train-rmse:0.082122 eval-rmspe:0.084809	eval-rmse:0.082122	train-rmspe:0.084809
[578]	train-rmse:0.081984 eval-rmspe:0.084659	eval-rmse:0.081984	train-rmspe:0.084659
[579]	train-rmse:0.081873 eval-rmspe:0.084544	eval-rmse:0.081873	train-rmspe:0.084544
[580]	train-rmse:0.081811 eval-rmspe:0.084482	eval-rmse:0.081811	train-rmspe:0.084482
[581]	train-rmse:0.081587 eval-rmspe:0.084235	eval-rmse:0.081587	train-rmspe:0.084235
[582]	train-rmse:0.081461 eval-rmspe:0.084093	eval-rmse:0.081461	train-rmspe:0.084093
[583]	train-rmse:0.08127 eval-rmspe:0.083839	eval-rmse:0.08127	train-rmspe:0.083839
[584]	train-rmse:0.081141 eval-rmspe:0.083675	eval-rmse:0.081141	train-rmspe:0.083675
[585]	train-rmse:0.081044 eval-rmspe:0.083575	eval-rmse:0.081044	train-rmspe:0.083575
[586]	train-rmse:0.080983 eval-rmspe:0.083515	eval-rmse:0.080983	train-rmspe:0.083515
[587]	train-rmse:0.080953 eval-rmspe:0.083485	eval-rmse:0.080953	train-rmspe:0.083485
[588]	train-rmse:0.080923 eval-rmspe:0.083455	eval-rmse:0.080923	train-rmspe:0.083455

[589]	train-rmse:0.080844	eval-rmse:0.080844	train-rmspe:0.083373
	eval-rmspe:0.083373		
[590]	train-rmse:0.080657	eval-rmse:0.080657	train-rmspe:0.083167
	eval-rmspe:0.083167		
[591]	train-rmse:0.08045	eval-rmse:0.08045	train-rmspe:0.082926
	eval-rmspe:0.082926		
[592]	train-rmse:0.08035	eval-rmse:0.08035	train-rmspe:0.082824
	eval-rmspe:0.082824		
[593]	train-rmse:0.080267	eval-rmse:0.080267	train-rmspe:0.082737
	eval-rmspe:0.082737		
[594]	train-rmse:0.08015	eval-rmse:0.08015	train-rmspe:0.082616
	eval-rmspe:0.082616		
[595]	train-rmse:0.080044	eval-rmse:0.080044	train-rmspe:0.082508
	eval-rmspe:0.082508		
[596]	train-rmse:0.07998	eval-rmse:0.07998	train-rmspe:0.082441
	eval-rmspe:0.082441		
[597]	train-rmse:0.079745	eval-rmse:0.079745	train-rmspe:0.082183
	eval-rmspe:0.082183		
[598]	train-rmse:0.079652	eval-rmse:0.079652	train-rmspe:0.082087
	eval-rmspe:0.082087		
[599]	train-rmse:0.079515	eval-rmse:0.079515	train-rmspe:0.081909
	eval-rmspe:0.081909		

round 5 end

round 6:

[0]	train-rmse:8.02735	eval-rmse:8.02735	train-rmspe:0.999811
	eval-rmspe:0.999811		

Multiple eval metrics have been passed: 'eval-rmspe' will be used for early stopping.

Will train until eval-rmspe hasn't improved in 100 rounds.

[1]	train-rmse:7.78708	eval-rmse:7.78708	train-rmspe:0.999713
	eval-rmspe:0.999713		
[2]	train-rmse:7.554	eval-rmse:7.554	train-rmspe:0.999594
	eval-rmspe:0.999594		
[3]	train-rmse:7.32794	eval-rmse:7.32794	train-rmspe:0.999448
	eval-rmspe:0.999448		
[4]	train-rmse:7.10866	eval-rmse:7.10866	train-rmspe:0.999272
	eval-rmspe:0.999272		
[5]	train-rmse:6.89605	eval-rmse:6.89605	train-rmspe:0.999059
	eval-rmspe:0.999059		
[6]	train-rmse:6.68975	eval-rmse:6.68975	train-rmspe:0.998806
	eval-rmspe:0.998806		
[7]	train-rmse:6.48968	eval-rmse:6.48968	train-rmspe:0.998505
	eval-rmspe:0.998505		
[8]	train-rmse:6.29561	eval-rmse:6.29561	train-rmspe:0.998149
	eval-rmspe:0.998149		
[9]	train-rmse:6.10736	eval-rmse:6.10736	train-rmspe:0.997732
	eval-rmspe:0.997732		

[10]	train-rmse:5.92484 eval-rmspe:0.997246	eval-rmse:5.92484	train-rmspe:0.997246
[11]	train-rmse:5.74775 eval-rmspe:0.996682	eval-rmse:5.74775	train-rmspe:0.996682
[12]	train-rmse:5.57605 eval-rmspe:0.99603	eval-rmse:5.57605	train-rmspe:0.99603
[13]	train-rmse:5.40946 eval-rmspe:0.995283	eval-rmse:5.40946	train-rmspe:0.995283
[14]	train-rmse:5.24793 eval-rmspe:0.994428	eval-rmse:5.24793	train-rmspe:0.994428
[15]	train-rmse:5.09128 eval-rmspe:0.993456	eval-rmse:5.09128	train-rmspe:0.993456
[16]	train-rmse:4.9393 eval-rmspe:0.992358	eval-rmse:4.9393	train-rmspe:0.992358
[17]	train-rmse:4.79192 eval-rmspe:0.99112	eval-rmse:4.79192	train-rmspe:0.99112
[18]	train-rmse:4.64897 eval-rmspe:0.989732	eval-rmse:4.64897	train-rmspe:0.989732
[19]	train-rmse:4.51034 eval-rmspe:0.988185	eval-rmse:4.51034	train-rmspe:0.988185
[20]	train-rmse:4.37587 eval-rmspe:0.986464	eval-rmse:4.37587	train-rmspe:0.986464
[21]	train-rmse:4.24547 eval-rmspe:0.98456	eval-rmse:4.24547	train-rmspe:0.98456
[22]	train-rmse:4.11898 eval-rmspe:0.982462	eval-rmse:4.11898	train-rmspe:0.982462
[23]	train-rmse:3.99636 eval-rmspe:0.98016	eval-rmse:3.99636	train-rmspe:0.98016
[24]	train-rmse:3.87742 eval-rmspe:0.977643	eval-rmse:3.87742	train-rmspe:0.977643
[25]	train-rmse:3.76206 eval-rmspe:0.974897	eval-rmse:3.76206	train-rmspe:0.974897
[26]	train-rmse:3.65019 eval-rmspe:0.971921	eval-rmse:3.65019	train-rmspe:0.971921
[27]	train-rmse:3.54172 eval-rmspe:0.968695	eval-rmse:3.54172	train-rmspe:0.968695
[28]	train-rmse:3.43648 eval-rmspe:0.965218	eval-rmse:3.43648	train-rmspe:0.965218
[29]	train-rmse:3.33449 eval-rmspe:0.961476	eval-rmse:3.33449	train-rmspe:0.961476
[30]	train-rmse:3.23555 eval-rmspe:0.957465	eval-rmse:3.23555	train-rmspe:0.957465
[31]	train-rmse:3.13961 eval-rmspe:0.953188	eval-rmse:3.13961	train-rmspe:0.953188
[32]	train-rmse:3.04654 eval-rmspe:0.948631	eval-rmse:3.04654	train-rmspe:0.948631
[33]	train-rmse:2.95634 eval-rmspe:0.943791	eval-rmse:2.95634	train-rmspe:0.943791

[34]	train-rmse:2.86881 eval-rmspe:0.938676	eval-rmse:2.86881	train-rmspe:0.938676
[35]	train-rmse:2.78399 eval-rmspe:0.933255	eval-rmse:2.78399	train-rmspe:0.933255
[36]	train-rmse:2.7017 eval-rmspe:0.927557	eval-rmse:2.7017	train-rmspe:0.927557
[37]	train-rmse:2.62194 eval-rmspe:0.921546	eval-rmse:2.62194	train-rmspe:0.921546
[38]	train-rmse:2.54458 eval-rmspe:0.91525	eval-rmse:2.54458	train-rmspe:0.91525
[39]	train-rmse:2.46958 eval-rmspe:0.908677	eval-rmse:2.46958	train-rmspe:0.908677
[40]	train-rmse:2.3969 eval-rmspe:0.901807	eval-rmse:2.3969	train-rmspe:0.901807
[41]	train-rmse:2.32641 eval-rmspe:0.894658	eval-rmse:2.32641	train-rmspe:0.894658
[42]	train-rmse:2.25803 eval-rmspe:0.88725	eval-rmse:2.25803	train-rmspe:0.88725
[43]	train-rmse:2.19172 eval-rmspe:0.879604	eval-rmse:2.19172	train-rmspe:0.879604
[44]	train-rmse:2.12734 eval-rmspe:0.871696	eval-rmse:2.12734	train-rmspe:0.871696
[45]	train-rmse:2.06503 eval-rmspe:0.863497	eval-rmse:2.06503	train-rmspe:0.863497
[46]	train-rmse:2.00466 eval-rmspe:0.855043	eval-rmse:2.00466	train-rmspe:0.855043
[47]	train-rmse:1.94611 eval-rmspe:0.846372	eval-rmse:1.94611	train-rmspe:0.846372
[48]	train-rmse:1.88929 eval-rmspe:0.837494	eval-rmse:1.88929	train-rmspe:0.837494
[49]	train-rmse:1.83411 eval-rmspe:0.828441	eval-rmse:1.83411	train-rmspe:0.828441
[50]	train-rmse:1.78079 eval-rmspe:0.819096	eval-rmse:1.78079	train-rmspe:0.819096
[51]	train-rmse:1.72908 eval-rmspe:0.809587	eval-rmse:1.72908	train-rmspe:0.809587
[52]	train-rmse:1.67887 eval-rmspe:0.79994	eval-rmse:1.67887	train-rmspe:0.79994
[53]	train-rmse:1.6302 eval-rmspe:0.790099	eval-rmse:1.6302	train-rmspe:0.790099
[54]	train-rmse:1.58309 eval-rmspe:0.780095	eval-rmse:1.58309	train-rmspe:0.780095
[55]	train-rmse:1.53736 eval-rmspe:0.769986	eval-rmse:1.53736	train-rmspe:0.769986
[56]	train-rmse:1.49299 eval-rmspe:0.759742	eval-rmse:1.49299	train-rmspe:0.759742
[57]	train-rmse:1.45013 eval-rmspe:0.749337	eval-rmse:1.45013	train-rmspe:0.749337

[58]	train-rmse:1.40857	eval-rmse:1.40857	train-rmspe:0.738842
	eval-rmspe:0.738842		
[59]	train-rmse:1.36827	eval-rmse:1.36827	train-rmspe:0.72825
	eval-rmspe:0.72825		
[60]	train-rmse:1.32917	eval-rmse:1.32917	train-rmspe:0.717625
	eval-rmspe:0.717625		
[61]	train-rmse:1.29125	eval-rmse:1.29125	train-rmspe:0.706931
	eval-rmspe:0.706931		
[62]	train-rmse:1.25442	eval-rmse:1.25442	train-rmspe:0.696213
	eval-rmspe:0.696213		
[63]	train-rmse:1.21889	eval-rmse:1.21889	train-rmspe:0.685423
	eval-rmspe:0.685423		
[64]	train-rmse:1.1845	eval-rmse:1.1845	train-rmspe:0.674583
	eval-rmspe:0.674583		
[65]	train-rmse:1.15095	eval-rmse:1.15095	train-rmspe:0.663808
	eval-rmspe:0.663808		
[66]	train-rmse:1.11855	eval-rmse:1.11855	train-rmspe:0.653012
	eval-rmspe:0.653012		
[67]	train-rmse:1.08718	eval-rmse:1.08718	train-rmspe:0.642233
	eval-rmspe:0.642233		
[68]	train-rmse:1.05683	eval-rmse:1.05683	train-rmspe:0.631472
	eval-rmspe:0.631472		
[69]	train-rmse:1.02737	eval-rmse:1.02737	train-rmspe:0.620759
	eval-rmspe:0.620759		
[70]	train-rmse:0.998864	eval-rmse:0.998864	train-rmspe:0.610078
	eval-rmspe:0.610078		
[71]	train-rmse:0.971216	eval-rmse:0.971216	train-rmspe:0.599462
	eval-rmspe:0.599462		
[72]	train-rmse:0.944341	eval-rmse:0.944341	train-rmspe:0.588929
	eval-rmspe:0.588929		
[73]	train-rmse:0.91865	eval-rmse:0.91865	train-rmspe:0.578435
	eval-rmspe:0.578435		
[74]	train-rmse:0.893602	eval-rmse:0.893602	train-rmspe:0.568069
	eval-rmspe:0.568069		
[75]	train-rmse:0.869371	eval-rmse:0.869371	train-rmspe:0.557776
	eval-rmspe:0.557776		
[76]	train-rmse:0.845914	eval-rmse:0.845914	train-rmspe:0.547602
	eval-rmspe:0.547602		
[77]	train-rmse:0.823187	eval-rmse:0.823187	train-rmspe:0.53757
	eval-rmspe:0.53757		
[78]	train-rmse:0.801024	eval-rmse:0.801024	train-rmspe:0.527644
	eval-rmspe:0.527644		
[79]	train-rmse:0.779611	eval-rmse:0.779611	train-rmspe:0.517849
	eval-rmspe:0.517849		
[80]	train-rmse:0.758846	eval-rmse:0.758846	train-rmspe:0.508193
	eval-rmspe:0.508193		
[81]	train-rmse:0.738663	eval-rmse:0.738663	train-rmspe:0.498659
	eval-rmspe:0.498659		

[82]	train-rmse:0.719476 eval-rmspe:0.489307	eval-rmse:0.719476	train-rmspe:0.489307
[83]	train-rmse:0.700604 eval-rmspe:0.480099	eval-rmse:0.700604	train-rmspe:0.480099
[84]	train-rmse:0.682527 eval-rmspe:0.471044	eval-rmse:0.682527	train-rmspe:0.471044
[85]	train-rmse:0.664977 eval-rmspe:0.462119	eval-rmse:0.664977	train-rmspe:0.462119
[86]	train-rmse:0.647989 eval-rmspe:0.453384	eval-rmse:0.647989	train-rmspe:0.453384
[87]	train-rmse:0.631577 eval-rmspe:0.444819	eval-rmse:0.631577	train-rmspe:0.444819
[88]	train-rmse:0.615894 eval-rmspe:0.436457	eval-rmse:0.615894	train-rmspe:0.436457
[89]	train-rmse:0.60052 eval-rmspe:0.428253	eval-rmse:0.60052	train-rmspe:0.428253
[90]	train-rmse:0.585783 eval-rmspe:0.420263	eval-rmse:0.585783	train-rmspe:0.420263
[91]	train-rmse:0.571476 eval-rmspe:0.41243	eval-rmse:0.571476	train-rmspe:0.41243
[92]	train-rmse:0.557837 eval-rmspe:0.404826	eval-rmse:0.557837	train-rmspe:0.404826
[93]	train-rmse:0.544609 eval-rmspe:0.397428	eval-rmse:0.544609	train-rmspe:0.397428
[94]	train-rmse:0.531868 eval-rmspe:0.390216	eval-rmse:0.531868	train-rmspe:0.390216
[95]	train-rmse:0.519317 eval-rmspe:0.383084	eval-rmse:0.519317	train-rmspe:0.383084
[96]	train-rmse:0.507372 eval-rmspe:0.376237	eval-rmse:0.507372	train-rmspe:0.376237
[97]	train-rmse:0.495818 eval-rmspe:0.369533	eval-rmse:0.495818	train-rmspe:0.369533
[98]	train-rmse:0.484684 eval-rmspe:0.36306	eval-rmse:0.484684	train-rmspe:0.36306
[99]	train-rmse:0.473965 eval-rmspe:0.356759	eval-rmse:0.473965	train-rmspe:0.356759
[100]	train-rmse:0.463166 eval-rmspe:0.350435	eval-rmse:0.463166	train-rmspe:0.350435
[101]	train-rmse:0.453229 eval-rmspe:0.34455	eval-rmse:0.453229	train-rmspe:0.34455
[102]	train-rmse:0.443667 eval-rmspe:0.338881	eval-rmse:0.443667	train-rmspe:0.338881
[103]	train-rmse:0.434464 eval-rmspe:0.333392	eval-rmse:0.434464	train-rmspe:0.333392
[104]	train-rmse:0.425348 eval-rmspe:0.328037	eval-rmse:0.425348	train-rmspe:0.328037
[105]	train-rmse:0.416859 eval-rmspe:0.322988	eval-rmse:0.416859	train-rmspe:0.322988

[106]	train-rmse:0.408559 eval-rmspe:0.318019	eval-rmse:0.408559	train-rmspe:0.318019
[107]	train-rmse:0.400467 eval-rmspe:0.313219	eval-rmse:0.400467	train-rmspe:0.313219
[108]	train-rmse:0.392932 eval-rmspe:0.308709	eval-rmse:0.392932	train-rmspe:0.308709
[109]	train-rmse:0.385469 eval-rmspe:0.304262	eval-rmse:0.385469	train-rmspe:0.304262
[110]	train-rmse:0.378238 eval-rmspe:0.299865	eval-rmse:0.378238	train-rmspe:0.299865
[111]	train-rmse:0.371374 eval-rmspe:0.295773	eval-rmse:0.371374	train-rmspe:0.295773
[112]	train-rmse:0.364752 eval-rmspe:0.291781	eval-rmse:0.364752	train-rmspe:0.291781
[113]	train-rmse:0.358411 eval-rmspe:0.288045	eval-rmse:0.358411	train-rmspe:0.288045
[114]	train-rmse:0.351495 eval-rmspe:0.283883	eval-rmse:0.351495	train-rmspe:0.283883
[115]	train-rmse:0.345165 eval-rmspe:0.28009	eval-rmse:0.345165	train-rmspe:0.28009
[116]	train-rmse:0.339619 eval-rmspe:0.276871	eval-rmse:0.339619	train-rmspe:0.276871
[117]	train-rmse:0.334079 eval-rmspe:0.273681	eval-rmse:0.334079	train-rmspe:0.273681
[118]	train-rmse:0.32868 eval-rmspe:0.270503	eval-rmse:0.32868	train-rmspe:0.270503
[119]	train-rmse:0.323776 eval-rmspe:0.267654	eval-rmse:0.323776	train-rmspe:0.267654
[120]	train-rmse:0.318995 eval-rmspe:0.264937	eval-rmse:0.318995	train-rmspe:0.264937
[121]	train-rmse:0.314226 eval-rmspe:0.262151	eval-rmse:0.314226	train-rmspe:0.262151
[122]	train-rmse:0.30965 eval-rmspe:0.259507	eval-rmse:0.30965	train-rmspe:0.259507
[123]	train-rmse:0.305692 eval-rmspe:0.257362	eval-rmse:0.305692	train-rmspe:0.257362
[124]	train-rmse:0.30145 eval-rmspe:0.254876	eval-rmse:0.30145	train-rmspe:0.254876
[125]	train-rmse:0.29744 eval-rmspe:0.252627	eval-rmse:0.29744	train-rmspe:0.252627
[126]	train-rmse:0.293599 eval-rmspe:0.250488	eval-rmse:0.293599	train-rmspe:0.250488
[127]	train-rmse:0.290092 eval-rmspe:0.248598	eval-rmse:0.290092	train-rmspe:0.248598
[128]	train-rmse:0.286628 eval-rmspe:0.246732	eval-rmse:0.286628	train-rmspe:0.246732
[129]	train-rmse:0.283432 eval-rmspe:0.245124	eval-rmse:0.283432	train-rmspe:0.245124

[130]	train-rmse:0.279048 eval-rmspe:0.242491	eval-rmse:0.279048	train-rmspe:0.242491
[131]	train-rmse:0.275349 eval-rmspe:0.24036	eval-rmse:0.275349	train-rmspe:0.24036
[132]	train-rmse:0.271707 eval-rmspe:0.238214	eval-rmse:0.271707	train-rmspe:0.238214
[133]	train-rmse:0.268361 eval-rmspe:0.236323	eval-rmse:0.268361	train-rmspe:0.236323
[134]	train-rmse:0.265569 eval-rmspe:0.234821	eval-rmse:0.265569	train-rmspe:0.234821
[135]	train-rmse:0.262292 eval-rmspe:0.232914	eval-rmse:0.262292	train-rmspe:0.232914
[136]	train-rmse:0.259773 eval-rmspe:0.231684	eval-rmse:0.259773	train-rmspe:0.231684
[137]	train-rmse:0.257148 eval-rmspe:0.230239	eval-rmse:0.257148	train-rmspe:0.230239
[138]	train-rmse:0.254872 eval-rmspe:0.229154	eval-rmse:0.254872	train-rmspe:0.229154
[139]	train-rmse:0.252669 eval-rmspe:0.22802	eval-rmse:0.252669	train-rmspe:0.22802
[140]	train-rmse:0.250422 eval-rmspe:0.226901	eval-rmse:0.250422	train-rmspe:0.226901
[141]	train-rmse:0.2481 eval-rmspe:0.225716	eval-rmse:0.2481	train-rmspe:0.225716
[142]	train-rmse:0.246115 eval-rmspe:0.224736	eval-rmse:0.246115	train-rmspe:0.224736
[143]	train-rmse:0.24426 eval-rmspe:0.22392	eval-rmse:0.24426	train-rmspe:0.22392
[144]	train-rmse:0.242023 eval-rmspe:0.222694	eval-rmse:0.242023	train-rmspe:0.222694
[145]	train-rmse:0.240134 eval-rmspe:0.221741	eval-rmse:0.240134	train-rmspe:0.221741
[146]	train-rmse:0.237891 eval-rmspe:0.22044	eval-rmse:0.237891	train-rmspe:0.22044
[147]	train-rmse:0.236216 eval-rmspe:0.219735	eval-rmse:0.236216	train-rmspe:0.219735
[148]	train-rmse:0.234634 eval-rmspe:0.219011	eval-rmse:0.234634	train-rmspe:0.219011
[149]	train-rmse:0.232044 eval-rmspe:0.21729	eval-rmse:0.232044	train-rmspe:0.21729
[150]	train-rmse:0.230461 eval-rmspe:0.2166	eval-rmse:0.230461	train-rmspe:0.2166
[151]	train-rmse:0.22869 eval-rmspe:0.215694	eval-rmse:0.22869	train-rmspe:0.215694
[152]	train-rmse:0.227424 eval-rmspe:0.21519	eval-rmse:0.227424	train-rmspe:0.21519
[153]	train-rmse:0.226279 eval-rmspe:0.214829	eval-rmse:0.226279	train-rmspe:0.214829

[154]	train-rmse:0.224914 eval-rmspe:0.214247	eval-rmse:0.224914	train-rmspe:0.214247
[155]	train-rmse:0.223623 eval-rmspe:0.213634	eval-rmse:0.223623	train-rmspe:0.213634
[156]	train-rmse:0.222344 eval-rmspe:0.212977	eval-rmse:0.222344	train-rmspe:0.212977
[157]	train-rmse:0.221478 eval-rmspe:0.212785	eval-rmse:0.221478	train-rmspe:0.212785
[158]	train-rmse:0.219501 eval-rmspe:0.21147	eval-rmse:0.219501	train-rmspe:0.21147
[159]	train-rmse:0.218654 eval-rmspe:0.211233	eval-rmse:0.218654	train-rmspe:0.211233
[160]	train-rmse:0.217803 eval-rmspe:0.210991	eval-rmse:0.217803	train-rmspe:0.210991
[161]	train-rmse:0.215924 eval-rmspe:0.209632	eval-rmse:0.215924	train-rmspe:0.209632
[162]	train-rmse:0.214915 eval-rmspe:0.209189	eval-rmse:0.214915	train-rmspe:0.209189
[163]	train-rmse:0.2136 eval-rmspe:0.208441	eval-rmse:0.2136	train-rmspe:0.208441
[164]	train-rmse:0.212698 eval-rmspe:0.208021	eval-rmse:0.212698	train-rmspe:0.208021
[165]	train-rmse:0.211928 eval-rmspe:0.207765	eval-rmse:0.211928	train-rmspe:0.207765
[166]	train-rmse:0.211251 eval-rmspe:0.207606	eval-rmse:0.211251	train-rmspe:0.207606
[167]	train-rmse:0.209533 eval-rmspe:0.206248	eval-rmse:0.209533	train-rmspe:0.206248
[168]	train-rmse:0.207888 eval-rmspe:0.205061	eval-rmse:0.207888	train-rmspe:0.205061
[169]	train-rmse:0.207225 eval-rmspe:0.204861	eval-rmse:0.207225	train-rmspe:0.204861
[170]	train-rmse:0.205765 eval-rmspe:0.203835	eval-rmse:0.205765	train-rmspe:0.203835
[171]	train-rmse:0.205208 eval-rmspe:0.203689	eval-rmse:0.205208	train-rmspe:0.203689
[172]	train-rmse:0.204519 eval-rmspe:0.20338	eval-rmse:0.204519	train-rmspe:0.20338
[173]	train-rmse:0.203654 eval-rmspe:0.202865	eval-rmse:0.203654	train-rmspe:0.202865
[174]	train-rmse:0.202537 eval-rmspe:0.202189	eval-rmse:0.202537	train-rmspe:0.202189
[175]	train-rmse:0.201682 eval-rmspe:0.201687	eval-rmse:0.201682	train-rmspe:0.201687
[176]	train-rmse:0.200241 eval-rmspe:0.20058	eval-rmse:0.200241	train-rmspe:0.20058
[177]	train-rmse:0.199561 eval-rmspe:0.20026	eval-rmse:0.199561	train-rmspe:0.20026

[178]	train-rmse:0.198923 eval-rmspe:0.199913	eval-rmse:0.198923	train-rmspe:0.199913
[179]	train-rmse:0.198376 eval-rmspe:0.199657	eval-rmse:0.198376	train-rmspe:0.199657
[180]	train-rmse:0.196517 eval-rmspe:0.197973	eval-rmse:0.196517	train-rmspe:0.197973
[181]	train-rmse:0.195291 eval-rmspe:0.197081	eval-rmse:0.195291	train-rmspe:0.197081
[182]	train-rmse:0.194668 eval-rmspe:0.196695	eval-rmse:0.194668	train-rmspe:0.196695
[183]	train-rmse:0.19419 eval-rmspe:0.196473	eval-rmse:0.19419	train-rmspe:0.196473
[184]	train-rmse:0.193673 eval-rmspe:0.196215	eval-rmse:0.193673	train-rmspe:0.196215
[185]	train-rmse:0.192893 eval-rmspe:0.195623	eval-rmse:0.192893	train-rmspe:0.195623
[186]	train-rmse:0.192238 eval-rmspe:0.195199	eval-rmse:0.192238	train-rmspe:0.195199
[187]	train-rmse:0.191433 eval-rmspe:0.194525	eval-rmse:0.191433	train-rmspe:0.194525
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[189]	train-rmse:0.189521 eval-rmspe:0.193053	eval-rmse:0.189521	train-rmspe:0.193053
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[297]	train-rmse:0.137697 eval-rmspe:0.144284	eval-rmse:0.137697	train-rmspe:0.144284

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[398]	train-rmse:0.108076 eval-rmspe:0.112608	eval-rmse:0.108076	train-rmspe:0.112608
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[522] train-rmse:0.088546 eval-rmspe:0.091558	eval-rmse:0.088546	train-rmspe:0.091558
[523] train-rmse:0.088398 eval-rmspe:0.091364	eval-rmse:0.088398	train-rmspe:0.091364
[524] train-rmse:0.088238 eval-rmspe:0.091199	eval-rmse:0.088238	train-rmspe:0.091199
[525] train-rmse:0.088141 eval-rmspe:0.091101	eval-rmse:0.088141	train-rmspe:0.091101
[526] train-rmse:0.087976 eval-rmspe:0.090923	eval-rmse:0.087976	train-rmspe:0.090923
[527] train-rmse:0.087888 eval-rmspe:0.09083	eval-rmse:0.087888	train-rmspe:0.09083
[528] train-rmse:0.087767 eval-rmspe:0.090701	eval-rmse:0.087767	train-rmspe:0.090701
[529] train-rmse:0.087738 eval-rmspe:0.09067	eval-rmse:0.087738	train-rmspe:0.09067
[530] train-rmse:0.087603 eval-rmspe:0.090525	eval-rmse:0.087603	train-rmspe:0.090525
[531] train-rmse:0.087563 eval-rmspe:0.090485	eval-rmse:0.087563	train-rmspe:0.090485
[532] train-rmse:0.087429 eval-rmspe:0.09034	eval-rmse:0.087429	train-rmspe:0.09034
[533] train-rmse:0.087337 eval-rmspe:0.090193	eval-rmse:0.087337	train-rmspe:0.090193
[534] train-rmse:0.087203 eval-rmspe:0.090055	eval-rmse:0.087203	train-rmspe:0.090055
[535] train-rmse:0.087124 eval-rmspe:0.089972	eval-rmse:0.087124	train-rmspe:0.089972
[536] train-rmse:0.086977 eval-rmspe:0.08981	eval-rmse:0.086977	train-rmspe:0.08981
[537] train-rmse:0.086808 eval-rmspe:0.089629	eval-rmse:0.086808	train-rmspe:0.089629

[538]	train-rmse:0.086458 eval-rmspe:0.089247	eval-rmse:0.086458	train-rmspe:0.089247
[539]	train-rmse:0.086263 eval-rmspe:0.089045	eval-rmse:0.086263	train-rmspe:0.089045
[540]	train-rmse:0.086134 eval-rmspe:0.088911	eval-rmse:0.086134	train-rmspe:0.088911
[541]	train-rmse:0.086104 eval-rmspe:0.08888	eval-rmse:0.086104	train-rmspe:0.08888
[542]	train-rmse:0.08596 eval-rmspe:0.088722	eval-rmse:0.08596	train-rmspe:0.088722
[543]	train-rmse:0.085794 eval-rmspe:0.088544	eval-rmse:0.085794	train-rmspe:0.088544
[544]	train-rmse:0.085688 eval-rmspe:0.088436	eval-rmse:0.085688	train-rmspe:0.088436
[545]	train-rmse:0.085587 eval-rmspe:0.08833	eval-rmse:0.085587	train-rmspe:0.08833
[546]	train-rmse:0.085556 eval-rmspe:0.0883	eval-rmse:0.085556	train-rmspe:0.0883
[547]	train-rmse:0.085424 eval-rmspe:0.088164	eval-rmse:0.085424	train-rmspe:0.088164
[548]	train-rmse:0.085267 eval-rmspe:0.087977	eval-rmse:0.085267	train-rmspe:0.087977
[549]	train-rmse:0.084991 eval-rmspe:0.087664	eval-rmse:0.084991	train-rmspe:0.087664
[550]	train-rmse:0.084854 eval-rmspe:0.087523	eval-rmse:0.084854	train-rmspe:0.087523
[551]	train-rmse:0.084786 eval-rmspe:0.087455	eval-rmse:0.084786	train-rmspe:0.087455
[552]	train-rmse:0.084608 eval-rmspe:0.087254	eval-rmse:0.084608	train-rmspe:0.087254
[553]	train-rmse:0.084491 eval-rmspe:0.087125	eval-rmse:0.084491	train-rmspe:0.087125
[554]	train-rmse:0.084407 eval-rmspe:0.08704	eval-rmse:0.084407	train-rmspe:0.08704
[555]	train-rmse:0.084238 eval-rmspe:0.086845	eval-rmse:0.084238	train-rmspe:0.086845
[556]	train-rmse:0.084164 eval-rmspe:0.086769	eval-rmse:0.084164	train-rmspe:0.086769
[557]	train-rmse:0.084066 eval-rmspe:0.086669	eval-rmse:0.084066	train-rmspe:0.086669
[558]	train-rmse:0.083898 eval-rmspe:0.086496	eval-rmse:0.083898	train-rmspe:0.086496
[559]	train-rmse:0.08373 eval-rmspe:0.086315	eval-rmse:0.08373	train-rmspe:0.086315
[560]	train-rmse:0.083604 eval-rmspe:0.086175	eval-rmse:0.083604	train-rmspe:0.086175
[561]	train-rmse:0.083417 eval-rmspe:0.085976	eval-rmse:0.083417	train-rmspe:0.085976

[562]	train-rmse:0.083211 eval-rmspe:0.08576	eval-rmse:0.083211	train-rmspe:0.08576
[563]	train-rmse:0.083113 eval-rmspe:0.085659	eval-rmse:0.083113	train-rmspe:0.085659
[564]	train-rmse:0.083052 eval-rmspe:0.085599	eval-rmse:0.083052	train-rmspe:0.085599
[565]	train-rmse:0.08296 eval-rmspe:0.085501	eval-rmse:0.08296	train-rmspe:0.085501
[566]	train-rmse:0.082804 eval-rmspe:0.085338	eval-rmse:0.082804	train-rmspe:0.085338
[567]	train-rmse:0.082612 eval-rmspe:0.085126	eval-rmse:0.082612	train-rmspe:0.085126
[568]	train-rmse:0.082558 eval-rmspe:0.085065	eval-rmse:0.082558	train-rmspe:0.085065
[569]	train-rmse:0.082469 eval-rmspe:0.084975	eval-rmse:0.082469	train-rmspe:0.084975
[570]	train-rmse:0.082407 eval-rmspe:0.084905	eval-rmse:0.082407	train-rmspe:0.084905
[571]	train-rmse:0.082257 eval-rmspe:0.084749	eval-rmse:0.082257	train-rmspe:0.084749
[572]	train-rmse:0.082115 eval-rmspe:0.084604	eval-rmse:0.082115	train-rmspe:0.084604
[573]	train-rmse:0.082081 eval-rmspe:0.084569	eval-rmse:0.082081	train-rmspe:0.084569
[574]	train-rmse:0.082059 eval-rmspe:0.084546	eval-rmse:0.082059	train-rmspe:0.084546
[575]	train-rmse:0.082041 eval-rmspe:0.084527	eval-rmse:0.082041	train-rmspe:0.084527
[576]	train-rmse:0.081992 eval-rmspe:0.084471	eval-rmse:0.081992	train-rmspe:0.084471
[577]	train-rmse:0.081793 eval-rmspe:0.084259	eval-rmse:0.081793	train-rmspe:0.084259
[578]	train-rmse:0.081704 eval-rmspe:0.084162	eval-rmse:0.081704	train-rmspe:0.084162
[579]	train-rmse:0.081668 eval-rmspe:0.084125	eval-rmse:0.081668	train-rmspe:0.084125
[580]	train-rmse:0.08156 eval-rmspe:0.084011	eval-rmse:0.08156	train-rmspe:0.084011
[581]	train-rmse:0.081472 eval-rmspe:0.083918	eval-rmse:0.081472	train-rmspe:0.083918
[582]	train-rmse:0.081348 eval-rmspe:0.083789	eval-rmse:0.081348	train-rmspe:0.083789
[583]	train-rmse:0.081322 eval-rmspe:0.083762	eval-rmse:0.081322	train-rmspe:0.083762
[584]	train-rmse:0.081245 eval-rmspe:0.083684	eval-rmse:0.081245	train-rmspe:0.083684
[585]	train-rmse:0.081182 eval-rmspe:0.083618	eval-rmse:0.081182	train-rmspe:0.083618

[586]	train-rmse:0.081138	eval-rmse:0.081138	train-rmspe:0.083572
	eval-rmspe:0.083572		
[587]	train-rmse:0.08084	eval-rmse:0.08084	train-rmspe:0.083213
	eval-rmspe:0.083213		
[588]	train-rmse:0.08071	eval-rmse:0.08071	train-rmspe:0.083067
	eval-rmspe:0.083067		
[589]	train-rmse:0.080563	eval-rmse:0.080563	train-rmspe:0.082908
	eval-rmspe:0.082908		
[590]	train-rmse:0.080346	eval-rmse:0.080346	train-rmspe:0.08266
	eval-rmspe:0.08266		
[591]	train-rmse:0.080271	eval-rmse:0.080271	train-rmspe:0.082584
	eval-rmspe:0.082584		
[592]	train-rmse:0.080235	eval-rmse:0.080235	train-rmspe:0.082549
	eval-rmspe:0.082549		
[593]	train-rmse:0.080192	eval-rmse:0.080192	train-rmspe:0.082506
	eval-rmspe:0.082506		
[594]	train-rmse:0.080146	eval-rmse:0.080146	train-rmspe:0.082459
	eval-rmspe:0.082459		
[595]	train-rmse:0.080028	eval-rmse:0.080028	train-rmspe:0.082334
	eval-rmspe:0.082334		
[596]	train-rmse:0.079977	eval-rmse:0.079977	train-rmspe:0.082277
	eval-rmspe:0.082277		
[597]	train-rmse:0.079823	eval-rmse:0.079823	train-rmspe:0.082111
	eval-rmspe:0.082111		
[598]	train-rmse:0.079789	eval-rmse:0.079789	train-rmspe:0.082071
	eval-rmspe:0.082071		
[599]	train-rmse:0.07975	eval-rmse:0.07975	train-rmspe:0.082033
	eval-rmspe:0.082033		
round 6 end			
round 7:			
[0]	train-rmse:8.02732	eval-rmse:8.02732	train-rmspe:0.999811
	eval-rmspe:0.999811		

Multiple eval metrics have been passed: 'eval-rmspe' will be used for early stopping.

Will train until eval-rmspe hasn't improved in 100 rounds.

[1]	train-rmse:7.78703	eval-rmse:7.78703	train-rmspe:0.999713
	eval-rmspe:0.999713		
[2]	train-rmse:7.55396	eval-rmse:7.55396	train-rmspe:0.999594
	eval-rmspe:0.999594		
[3]	train-rmse:7.32791	eval-rmse:7.32791	train-rmspe:0.999448
	eval-rmspe:0.999448		
[4]	train-rmse:7.10862	eval-rmse:7.10862	train-rmspe:0.999272
	eval-rmspe:0.999272		
[5]	train-rmse:6.89599	eval-rmse:6.89599	train-rmspe:0.999059
	eval-rmspe:0.999059		
[6]	train-rmse:6.68969	eval-rmse:6.68969	train-rmspe:0.998806
	eval-rmspe:0.998806		

[7]	train-rmse:6.48959 eval-rmspe:0.998504	eval-rmse:6.48959	train-rmspe:0.998504
[8]	train-rmse:6.29558 eval-rmspe:0.998149	eval-rmse:6.29558	train-rmspe:0.998149
[9]	train-rmse:6.10736 eval-rmspe:0.997732	eval-rmse:6.10736	train-rmspe:0.997732
[10]	train-rmse:5.92486 eval-rmspe:0.997245	eval-rmse:5.92486	train-rmspe:0.997245
[11]	train-rmse:5.74775 eval-rmspe:0.99668	eval-rmse:5.74775	train-rmspe:0.99668
[12]	train-rmse:5.57604 eval-rmspe:0.996028	eval-rmse:5.57604	train-rmspe:0.996028
[13]	train-rmse:5.40949 eval-rmspe:0.995281	eval-rmse:5.40949	train-rmspe:0.995281
[14]	train-rmse:5.24791 eval-rmspe:0.994426	eval-rmse:5.24791	train-rmspe:0.994426
[15]	train-rmse:5.09123 eval-rmspe:0.993456	eval-rmse:5.09123	train-rmspe:0.993456
[16]	train-rmse:4.9393 eval-rmspe:0.992357	eval-rmse:4.9393	train-rmspe:0.992357
[17]	train-rmse:4.79191 eval-rmspe:0.991121	eval-rmse:4.79191	train-rmspe:0.991121
[18]	train-rmse:4.64897 eval-rmspe:0.989736	eval-rmse:4.64897	train-rmspe:0.989736
[19]	train-rmse:4.51035 eval-rmspe:0.98819	eval-rmse:4.51035	train-rmspe:0.98819
[20]	train-rmse:4.37588 eval-rmspe:0.986472	eval-rmse:4.37588	train-rmspe:0.986472
[21]	train-rmse:4.2455 eval-rmspe:0.984567	eval-rmse:4.2455	train-rmspe:0.984567
[22]	train-rmse:4.11904 eval-rmspe:0.982474	eval-rmse:4.11904	train-rmspe:0.982474
[23]	train-rmse:3.99639 eval-rmspe:0.980175	eval-rmse:3.99639	train-rmspe:0.980175
[24]	train-rmse:3.87744 eval-rmspe:0.977658	eval-rmse:3.87744	train-rmspe:0.977658
[25]	train-rmse:3.76209 eval-rmspe:0.974913	eval-rmse:3.76209	train-rmspe:0.974913
[26]	train-rmse:3.65025 eval-rmspe:0.971937	eval-rmse:3.65025	train-rmspe:0.971937
[27]	train-rmse:3.54177 eval-rmspe:0.968714	eval-rmse:3.54177	train-rmspe:0.968714
[28]	train-rmse:3.43657 eval-rmspe:0.965242	eval-rmse:3.43657	train-rmspe:0.965242
[29]	train-rmse:3.33452 eval-rmspe:0.961507	eval-rmse:3.33452	train-rmspe:0.961507
[30]	train-rmse:3.23557 eval-rmspe:0.957501	eval-rmse:3.23557	train-rmspe:0.957501

[31]	train-rmse:3.13957 eval-rmspe:0.953217	eval-rmse:3.13957	train-rmspe:0.953217
[32]	train-rmse:3.04655 eval-rmspe:0.948661	eval-rmse:3.04655	train-rmspe:0.948661
[33]	train-rmse:2.95635 eval-rmspe:0.943823	eval-rmse:2.95635	train-rmspe:0.943823
[34]	train-rmse:2.86888 eval-rmspe:0.938688	eval-rmse:2.86888	train-rmspe:0.938688
[35]	train-rmse:2.78405 eval-rmspe:0.933267	eval-rmse:2.78405	train-rmspe:0.933267
[36]	train-rmse:2.70176 eval-rmspe:0.927561	eval-rmse:2.70176	train-rmspe:0.927561
[37]	train-rmse:2.62197 eval-rmspe:0.921571	eval-rmse:2.62197	train-rmspe:0.921571
[38]	train-rmse:2.54463 eval-rmspe:0.915291	eval-rmse:2.54463	train-rmspe:0.915291
[39]	train-rmse:2.46965 eval-rmspe:0.908718	eval-rmse:2.46965	train-rmspe:0.908718
[40]	train-rmse:2.3969 eval-rmspe:0.90188	eval-rmse:2.3969	train-rmspe:0.90188
[41]	train-rmse:2.32639 eval-rmspe:0.894744	eval-rmse:2.32639	train-rmspe:0.894744
[42]	train-rmse:2.25796 eval-rmspe:0.887333	eval-rmse:2.25796	train-rmspe:0.887333
[43]	train-rmse:2.19164 eval-rmspe:0.879667	eval-rmse:2.19164	train-rmspe:0.879667
[44]	train-rmse:2.12733 eval-rmspe:0.871764	eval-rmse:2.12733	train-rmspe:0.871764
[45]	train-rmse:2.065 rmspe:0.863557	eval-rmse:2.065	train-rmspe:0.863557 eval-rmspe:0.863557
[46]	train-rmse:2.0046 eval-rmspe:0.855125	eval-rmse:2.0046	train-rmspe:0.855125
[47]	train-rmse:1.94594 eval-rmspe:0.846476	eval-rmse:1.94594	train-rmspe:0.846476
[48]	train-rmse:1.8891 eval-rmspe:0.83761	eval-rmse:1.8891	train-rmspe:0.83761
[49]	train-rmse:1.83396 eval-rmspe:0.828532	eval-rmse:1.83396	train-rmspe:0.828532
[50]	train-rmse:1.78057 eval-rmspe:0.819218	eval-rmse:1.78057	train-rmspe:0.819218
[51]	train-rmse:1.72886 eval-rmspe:0.809704	eval-rmse:1.72886	train-rmspe:0.809704
[52]	train-rmse:1.67864 eval-rmspe:0.800038	eval-rmse:1.67864	train-rmspe:0.800038
[53]	train-rmse:1.62995 eval-rmspe:0.790201	eval-rmse:1.62995	train-rmspe:0.790201
[54]	train-rmse:1.58272 eval-rmspe:0.780251	eval-rmse:1.58272	train-rmspe:0.780251

[55]	train-rmse:1.53684 eval-rmspe:0.770177	eval-rmse:1.53684	train-rmspe:0.770177
[56]	train-rmse:1.49251 eval-rmspe:0.759938	eval-rmse:1.49251	train-rmspe:0.759938
[57]	train-rmse:1.44951 eval-rmspe:0.74958	eval-rmse:1.44951	train-rmspe:0.74958
[58]	train-rmse:1.40794 eval-rmspe:0.739072	eval-rmse:1.40794	train-rmspe:0.739072
[59]	train-rmse:1.36763 eval-rmspe:0.728506	eval-rmse:1.36763	train-rmspe:0.728506
[60]	train-rmse:1.32862 eval-rmspe:0.71782	eval-rmse:1.32862	train-rmspe:0.71782
[61]	train-rmse:1.29075 eval-rmspe:0.707121	eval-rmse:1.29075	train-rmspe:0.707121
[62]	train-rmse:1.25391 eval-rmspe:0.696414	eval-rmse:1.25391	train-rmspe:0.696414
[63]	train-rmse:1.2181 eval-rmspe:0.685669	eval-rmse:1.2181	train-rmspe:0.685669
[64]	train-rmse:1.18365 eval-rmspe:0.674843	eval-rmse:1.18365	train-rmspe:0.674843
[65]	train-rmse:1.15024 eval-rmspe:0.664025	eval-rmse:1.15024	train-rmspe:0.664025
[66]	train-rmse:1.11771 eval-rmspe:0.653233	eval-rmse:1.11771	train-rmspe:0.653233
[67]	train-rmse:1.08637 eval-rmspe:0.642409	eval-rmse:1.08637	train-rmspe:0.642409
[68]	train-rmse:1.05607 eval-rmspe:0.631609	eval-rmse:1.05607	train-rmspe:0.631609
[69]	train-rmse:1.02668 eval-rmspe:0.620834	eval-rmse:1.02668	train-rmspe:0.620834
[70]	train-rmse:0.99821 eval-rmspe:0.610139	eval-rmse:0.99821	train-rmspe:0.610139
[71]	train-rmse:0.970448 eval-rmspe:0.599531	eval-rmse:0.970448	train-rmspe:0.599531
[72]	train-rmse:0.94366 eval-rmspe:0.588956	eval-rmse:0.94366	train-rmspe:0.588956
[73]	train-rmse:0.917723 eval-rmspe:0.578489	eval-rmse:0.917723	train-rmspe:0.578489
[74]	train-rmse:0.892809 eval-rmspe:0.568068	eval-rmse:0.892809	train-rmspe:0.568068
[75]	train-rmse:0.868337 eval-rmspe:0.55779	eval-rmse:0.868337	train-rmspe:0.55779
[76]	train-rmse:0.844735 eval-rmspe:0.547586	eval-rmse:0.844735	train-rmspe:0.547586
[77]	train-rmse:0.822015 eval-rmspe:0.537502	eval-rmse:0.822015	train-rmspe:0.537502
[78]	train-rmse:0.799798 eval-rmspe:0.527543	eval-rmse:0.799798	train-rmspe:0.527543

[79]	train-rmse:0.77839 eval-rmspe:0.517718	eval-rmse:0.77839	train-rmspe:0.517718
[80]	train-rmse:0.757822 eval-rmspe:0.508032	eval-rmse:0.757822	train-rmspe:0.508032
[81]	train-rmse:0.737964 eval-rmspe:0.498489	eval-rmse:0.737964	train-rmspe:0.498489
[82]	train-rmse:0.71861 eval-rmspe:0.489077	eval-rmse:0.71861	train-rmspe:0.489077
[83]	train-rmse:0.69936 eval-rmspe:0.479776	eval-rmse:0.69936	train-rmspe:0.479776
[84]	train-rmse:0.681124 eval-rmspe:0.470686	eval-rmse:0.681124	train-rmspe:0.470686
[85]	train-rmse:0.663284 eval-rmspe:0.461696	eval-rmse:0.663284	train-rmspe:0.461696
[86]	train-rmse:0.646171 eval-rmspe:0.452911	eval-rmse:0.646171	train-rmspe:0.452911
[87]	train-rmse:0.629912 eval-rmspe:0.444346	eval-rmse:0.629912	train-rmspe:0.444346
[88]	train-rmse:0.614103 eval-rmspe:0.435951	eval-rmse:0.614103	train-rmspe:0.435951
[89]	train-rmse:0.598941 eval-rmspe:0.427737	eval-rmse:0.598941	train-rmspe:0.427737
[90]	train-rmse:0.583713 eval-rmspe:0.419539	eval-rmse:0.583713	train-rmspe:0.419539
[91]	train-rmse:0.569421 eval-rmspe:0.411652	eval-rmse:0.569421	train-rmspe:0.411652
[92]	train-rmse:0.555602 eval-rmspe:0.403963	eval-rmse:0.555602	train-rmspe:0.403963
[93]	train-rmse:0.542301 eval-rmspe:0.396507	eval-rmse:0.542301	train-rmspe:0.396507
[94]	train-rmse:0.52929 eval-rmspe:0.389137	eval-rmse:0.52929	train-rmspe:0.389137
[95]	train-rmse:0.51679 eval-rmspe:0.382003	eval-rmse:0.51679	train-rmspe:0.382003
[96]	train-rmse:0.50471 eval-rmspe:0.37504	eval-rmse:0.50471	train-rmspe:0.37504
[97]	train-rmse:0.492993 eval-rmspe:0.368255	eval-rmse:0.492993	train-rmspe:0.368255
[98]	train-rmse:0.481869 eval-rmspe:0.36171	eval-rmse:0.481869	train-rmspe:0.36171
[99]	train-rmse:0.471091 eval-rmspe:0.355339	eval-rmse:0.471091	train-rmspe:0.355339
[100]	train-rmse:0.460732 eval-rmspe:0.349207	eval-rmse:0.460732	train-rmspe:0.349207
[101]	train-rmse:0.450662 eval-rmspe:0.343224	eval-rmse:0.450662	train-rmspe:0.343224
[102]	train-rmse:0.440543 eval-rmspe:0.337233	eval-rmse:0.440543	train-rmspe:0.337233

[103]	train-rmse:0.431141	eval-rmse:0.431141	train-rmspe:0.331572
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[104]	train-rmse:0.422004	eval-rmse:0.422004	train-rmspe:0.326085
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[105]	train-rmse:0.412967	eval-rmse:0.412967	train-rmspe:0.320606
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[106]	train-rmse:0.40438	eval-rmse:0.40438	train-rmspe:0.315367
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[107]	train-rmse:0.396161	eval-rmse:0.396161	train-rmspe:0.31037
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[108]	train-rmse:0.388285	eval-rmse:0.388285	train-rmspe:0.305571
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[109]	train-rmse:0.380468	eval-rmse:0.380468	train-rmspe:0.300857
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[110]	train-rmse:0.373348	eval-rmse:0.373348	train-rmspe:0.296484
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[111]	train-rmse:0.3664	eval-rmse:0.3664	train-rmspe:0.292273
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[112]	train-rmse:0.359803	eval-rmse:0.359803	train-rmspe:0.288284
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[113]	train-rmse:0.35347	eval-rmse:0.35347	train-rmspe:0.284485
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[114]	train-rmse:0.346605	eval-rmse:0.346605	train-rmspe:0.280354
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[115]	train-rmse:0.340652	eval-rmse:0.340652	train-rmspe:0.276719
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[116]	train-rmse:0.334943	eval-rmse:0.334943	train-rmspe:0.273268
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[117]	train-rmse:0.329275	eval-rmse:0.329275	train-rmspe:0.269865
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[118]	train-rmse:0.323762	eval-rmse:0.323762	train-rmspe:0.266554
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[119]	train-rmse:0.317765	eval-rmse:0.317765	train-rmspe:0.262882
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[120]	train-rmse:0.312622	eval-rmse:0.312622	train-rmspe:0.259736
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[121]	train-rmse:0.307872	eval-rmse:0.307872	train-rmspe:0.256922
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[122]	train-rmse:0.303422	eval-rmse:0.303422	train-rmspe:0.25434
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[123]	train-rmse:0.29879	eval-rmse:0.29879	train-rmspe:0.251558
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[124]	train-rmse:0.294336	eval-rmse:0.294336	train-rmspe:0.248811
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[125]	train-rmse:0.290217	eval-rmse:0.290217	train-rmspe:0.246408
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[126]	train-rmse:0.286331	eval-rmse:0.286331	train-rmspe:0.244243
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[127]	train-rmse:0.282653 eval-rmspe:0.242174	eval-rmse:0.282653	train-rmspe:0.242174
[128]	train-rmse:0.278861 eval-rmspe:0.239984	eval-rmse:0.278861	train-rmspe:0.239984
[129]	train-rmse:0.274401 eval-rmspe:0.237145	eval-rmse:0.274401	train-rmspe:0.237145
[130]	train-rmse:0.271157 eval-rmspe:0.235385	eval-rmse:0.271157	train-rmspe:0.235385
[131]	train-rmse:0.267983 eval-rmspe:0.233611	eval-rmse:0.267983	train-rmspe:0.233611
[132]	train-rmse:0.264938 eval-rmspe:0.231921	eval-rmse:0.264938	train-rmspe:0.231921
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[134]	train-rmse:0.259163 eval-rmspe:0.228739	eval-rmse:0.259163	train-rmspe:0.228739
[135]	train-rmse:0.256215 eval-rmspe:0.227076	eval-rmse:0.256215	train-rmspe:0.227076
[136]	train-rmse:0.252571 eval-rmspe:0.224766	eval-rmse:0.252571	train-rmspe:0.224766
[137]	train-rmse:0.250025 eval-rmspe:0.223434	eval-rmse:0.250025	train-rmspe:0.223434
[138]	train-rmse:0.247272 eval-rmspe:0.221918	eval-rmse:0.247272	train-rmspe:0.221918
[139]	train-rmse:0.245001 eval-rmspe:0.220649	eval-rmse:0.245001	train-rmspe:0.220649
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[141]	train-rmse:0.240669 eval-rmspe:0.218488	eval-rmse:0.240669	train-rmspe:0.218488
[142]	train-rmse:0.23862 eval-rmspe:0.217487	eval-rmse:0.23862	train-rmspe:0.217487
[143]	train-rmse:0.236712 eval-rmspe:0.216574	eval-rmse:0.236712	train-rmspe:0.216574
[144]	train-rmse:0.234292 eval-rmspe:0.215197	eval-rmse:0.234292	train-rmspe:0.215197
[145]	train-rmse:0.232461 eval-rmspe:0.214298	eval-rmse:0.232461	train-rmspe:0.214298
[146]	train-rmse:0.23042 eval-rmspe:0.21308	eval-rmse:0.23042	train-rmspe:0.21308
[147]	train-rmse:0.22874 eval-rmspe:0.212318	eval-rmse:0.22874	train-rmspe:0.212318
[148]	train-rmse:0.227049 eval-rmspe:0.211497	eval-rmse:0.227049	train-rmspe:0.211497
[149]	train-rmse:0.225129 eval-rmspe:0.21043	eval-rmse:0.225129	train-rmspe:0.21043
[150]	train-rmse:0.223569 eval-rmspe:0.209661	eval-rmse:0.223569	train-rmspe:0.209661

[151]	train-rmse:0.222325 eval-rmspe:0.209181	eval-rmse:0.222325	train-rmspe:0.209181
[152]	train-rmse:0.220966 eval-rmspe:0.208524	eval-rmse:0.220966	train-rmspe:0.208524
[153]	train-rmse:0.21981 eval-rmspe:0.208074	eval-rmse:0.21981	train-rmspe:0.208074
[154]	train-rmse:0.218618 eval-rmspe:0.207588	eval-rmse:0.218618	train-rmspe:0.207588
[155]	train-rmse:0.217143 eval-rmspe:0.20677	eval-rmse:0.217143	train-rmspe:0.20677
[156]	train-rmse:0.216163 eval-rmspe:0.206455	eval-rmse:0.216163	train-rmspe:0.206455
[157]	train-rmse:0.214567 eval-rmspe:0.20549	eval-rmse:0.214567	train-rmspe:0.20549
[158]	train-rmse:0.213476 eval-rmspe:0.20505	eval-rmse:0.213476	train-rmspe:0.20505
[159]	train-rmse:0.212381 eval-rmspe:0.204543	eval-rmse:0.212381	train-rmspe:0.204543
[160]	train-rmse:0.210894 eval-rmspe:0.203707	eval-rmse:0.210894	train-rmspe:0.203707
[161]	train-rmse:0.20994 eval-rmspe:0.203291	eval-rmse:0.20994	train-rmspe:0.203291
[162]	train-rmse:0.208613 eval-rmspe:0.202542	eval-rmse:0.208613	train-rmspe:0.202542
[163]	train-rmse:0.207259 eval-rmspe:0.201676	eval-rmse:0.207259	train-rmspe:0.201676
[164]	train-rmse:0.206319 eval-rmspe:0.201237	eval-rmse:0.206319	train-rmspe:0.201237
[165]	train-rmse:0.205221 eval-rmspe:0.200593	eval-rmse:0.205221	train-rmspe:0.200593
[166]	train-rmse:0.204179 eval-rmspe:0.200014	eval-rmse:0.204179	train-rmspe:0.200014
[167]	train-rmse:0.202996 eval-rmspe:0.199227	eval-rmse:0.202996	train-rmspe:0.199227
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[169]	train-rmse:0.200687 eval-rmspe:0.1977	eval-rmse:0.200687	train-rmspe:0.1977
[170]	train-rmse:0.198865 eval-rmspe:0.196172	eval-rmse:0.198865	train-rmspe:0.196172
[171]	train-rmse:0.198178 eval-rmspe:0.195857	eval-rmse:0.198178	train-rmspe:0.195857
[172]	train-rmse:0.197327 eval-rmspe:0.195388	eval-rmse:0.197327	train-rmspe:0.195388
[173]	train-rmse:0.196683 eval-rmspe:0.195126	eval-rmse:0.196683	train-rmspe:0.195126
[174]	train-rmse:0.195519 eval-rmspe:0.194251	eval-rmse:0.195519	train-rmspe:0.194251

[175]	train-rmse:0.194584 eval-rmspe:0.193589	eval-rmse:0.194584	train-rmspe:0.193589
[176]	train-rmse:0.19393 eval-rmspe:0.193278	eval-rmse:0.19393	train-rmspe:0.193278
[177]	train-rmse:0.193379 eval-rmspe:0.193049	eval-rmse:0.193379	train-rmspe:0.193049
[178]	train-rmse:0.192836 eval-rmspe:0.192815	eval-rmse:0.192836	train-rmspe:0.192815
[179]	train-rmse:0.19182 eval-rmspe:0.192053	eval-rmse:0.19182	train-rmspe:0.192053
[180]	train-rmse:0.191397 eval-rmspe:0.191934	eval-rmse:0.191397	train-rmspe:0.191934
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[183]	train-rmse:0.189588 eval-rmspe:0.191029	eval-rmse:0.189588	train-rmspe:0.191029
[184]	train-rmse:0.189076 eval-rmspe:0.190759	eval-rmse:0.189076	train-rmspe:0.190759
[185]	train-rmse:0.18742 eval-rmspe:0.189284	eval-rmse:0.18742	train-rmspe:0.189284
[186]	train-rmse:0.18583 eval-rmspe:0.187852	eval-rmse:0.18583	train-rmspe:0.187852
[187]	train-rmse:0.185323 eval-rmspe:0.187548	eval-rmse:0.185323	train-rmspe:0.187548
[188]	train-rmse:0.183502 eval-rmspe:0.185857	eval-rmse:0.183502	train-rmspe:0.185857
[189]	train-rmse:0.183128 eval-rmspe:0.185674	eval-rmse:0.183128	train-rmspe:0.185674
[190]	train-rmse:0.182421 eval-rmspe:0.185191	eval-rmse:0.182421	train-rmspe:0.185191
[191]	train-rmse:0.181651 eval-rmspe:0.184572	eval-rmse:0.181651	train-rmspe:0.184572
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[194]	train-rmse:0.18035 eval-rmspe:0.183831	eval-rmse:0.18035	train-rmspe:0.183831
[195]	train-rmse:0.179853 eval-rmspe:0.18349	eval-rmse:0.179853	train-rmspe:0.18349
[196]	train-rmse:0.178598 eval-rmspe:0.182314	eval-rmse:0.178598	train-rmspe:0.182314
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[203]	train-rmse:0.174362 eval-rmspe:0.178897	eval-rmse:0.174362	train-rmspe:0.178897
[204]	train-rmse:0.17384 eval-rmspe:0.178517	eval-rmse:0.17384	train-rmspe:0.178517
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[221]	train-rmse:0.1653 eval-rmspe:0.171441	eval-rmse:0.1653	train-rmspe:0.171441
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[229]	train-rmse:0.160607 eval-rmspe:0.166945	eval-rmse:0.160607	train-rmspe:0.166945
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	eval-rmspe:0.081936		
[591]	train-rmse:0.07966	eval-rmse:0.07966	train-rmspe:0.081833
	eval-rmspe:0.081833		
[592]	train-rmse:0.07961	eval-rmse:0.07961	train-rmspe:0.081782
	eval-rmspe:0.081782		
[593]	train-rmse:0.079561	eval-rmse:0.079561	train-rmspe:0.081726
	eval-rmspe:0.081726		
[594]	train-rmse:0.079405	eval-rmse:0.079405	train-rmspe:0.081546
	eval-rmspe:0.081546		
[595]	train-rmse:0.079248	eval-rmse:0.079248	train-rmspe:0.081376
	eval-rmspe:0.081376		
[596]	train-rmse:0.079193	eval-rmse:0.079193	train-rmspe:0.081318
	eval-rmspe:0.081318		
[597]	train-rmse:0.079071	eval-rmse:0.079071	train-rmspe:0.081189
	eval-rmspe:0.081189		
[598]	train-rmse:0.078927	eval-rmse:0.078927	train-rmspe:0.081
	eval-rmspe:0.081		
[599]	train-rmse:0.07881	eval-rmse:0.07881	train-rmspe:0.080879
	eval-rmspe:0.080879		
	round 7 end		
	round 8:		
[0]	train-rmse:8.02731	eval-rmse:8.02731	train-rmspe:0.999811
	eval-rmspe:0.999811		

Multiple eval metrics have been passed: 'eval-rmspe' will be used for early stopping.

Will train until eval-rmspe hasn't improved in 100 rounds.

[1]	train-rmse:7.78701	eval-rmse:7.78701	train-rmspe:0.999713
	eval-rmspe:0.999713		
[2]	train-rmse:7.55393	eval-rmse:7.55393	train-rmspe:0.999594
	eval-rmspe:0.999594		
[3]	train-rmse:7.32795	eval-rmse:7.32795	train-rmspe:0.999448
	eval-rmspe:0.999448		

[4]	train-rmse:7.10867	eval-rmse:7.10867	train-rmspe:0.999271
	eval-rmspe:0.999271		
[5]	train-rmse:6.89601	eval-rmse:6.89601	train-rmspe:0.999059
	eval-rmspe:0.999059		
[6]	train-rmse:6.6897	eval-rmse:6.6897	train-rmspe:0.998805
	eval-rmspe:0.998805		
[7]	train-rmse:6.48961	eval-rmse:6.48961	train-rmspe:0.998504
	eval-rmspe:0.998504		
[8]	train-rmse:6.29553	eval-rmse:6.29553	train-rmspe:0.998148
	eval-rmspe:0.998148		
[9]	train-rmse:6.10733	eval-rmse:6.10733	train-rmspe:0.997731
	eval-rmspe:0.997731		
[10]	train-rmse:5.92475	eval-rmse:5.92475	train-rmspe:0.997245
	eval-rmspe:0.997245		
[11]	train-rmse:5.74771	eval-rmse:5.74771	train-rmspe:0.99668
	eval-rmspe:0.99668		
[12]	train-rmse:5.576	eval-rmse:5.576	train-rmspe:0.996028
	rmspe:0.996028		eval-
[13]	train-rmse:5.40942	eval-rmse:5.40942	train-rmspe:0.99528
	eval-rmspe:0.99528		
[14]	train-rmse:5.24788	eval-rmse:5.24788	train-rmspe:0.994426
	eval-rmspe:0.994426		
[15]	train-rmse:5.09118	eval-rmse:5.09118	train-rmspe:0.993456
	eval-rmspe:0.993456		
[16]	train-rmse:4.93923	eval-rmse:4.93923	train-rmspe:0.992356
	eval-rmspe:0.992356		
[17]	train-rmse:4.7918	eval-rmse:4.7918	train-rmspe:0.99112
	eval-rmspe:0.99112		
[18]	train-rmse:4.64884	eval-rmse:4.64884	train-rmspe:0.989733
	eval-rmspe:0.989733		
[19]	train-rmse:4.51021	eval-rmse:4.51021	train-rmspe:0.988187
	eval-rmspe:0.988187		
[20]	train-rmse:4.37578	eval-rmse:4.37578	train-rmspe:0.986466
	eval-rmspe:0.986466		
[21]	train-rmse:4.2454	eval-rmse:4.2454	train-rmspe:0.984565
	eval-rmspe:0.984565		
[22]	train-rmse:4.11893	eval-rmse:4.11893	train-rmspe:0.982468
	eval-rmspe:0.982468		
[23]	train-rmse:3.99631	eval-rmse:3.99631	train-rmspe:0.980167
	eval-rmspe:0.980167		
[24]	train-rmse:3.87737	eval-rmse:3.87737	train-rmspe:0.977646
	eval-rmspe:0.977646		
[25]	train-rmse:3.76201	eval-rmse:3.76201	train-rmspe:0.974904
	eval-rmspe:0.974904		
[26]	train-rmse:3.65014	eval-rmse:3.65014	train-rmspe:0.971924
	eval-rmspe:0.971924		
[27]	train-rmse:3.54167	eval-rmse:3.54167	train-rmspe:0.968701
	eval-rmspe:0.968701		

[28]	train-rmse:3.43642	eval-rmse:3.43642	train-rmspe:0.965223
	eval-rmspe:0.965223		
[29]	train-rmse:3.33441	eval-rmse:3.33441	train-rmspe:0.961487
	eval-rmspe:0.961487		
[30]	train-rmse:3.23548	eval-rmse:3.23548	train-rmspe:0.957474
	eval-rmspe:0.957474		
[31]	train-rmse:3.13954	eval-rmse:3.13954	train-rmspe:0.953183
	eval-rmspe:0.953183		
[32]	train-rmse:3.04651	eval-rmse:3.04651	train-rmspe:0.948618
	eval-rmspe:0.948618		
[33]	train-rmse:2.95629	eval-rmse:2.95629	train-rmspe:0.943783
	eval-rmspe:0.943783		
[34]	train-rmse:2.86879	eval-rmse:2.86879	train-rmspe:0.938647
	eval-rmspe:0.938647		
[35]	train-rmse:2.7839	eval-rmse:2.7839	train-rmspe:0.933239
	eval-rmspe:0.933239		
[36]	train-rmse:2.70166	eval-rmse:2.70166	train-rmspe:0.927529
	eval-rmspe:0.927529		
[37]	train-rmse:2.62191	eval-rmse:2.62191	train-rmspe:0.921543
	eval-rmspe:0.921543		
[38]	train-rmse:2.54451	eval-rmse:2.54451	train-rmspe:0.915269
	eval-rmspe:0.915269		
[39]	train-rmse:2.4695	eval-rmse:2.4695	train-rmspe:0.90869
	eval-rmspe:0.90869		
[40]	train-rmse:2.3968	eval-rmse:2.3968	train-rmspe:0.90182
	eval-rmspe:0.90182		
[41]	train-rmse:2.32626	eval-rmse:2.32626	train-rmspe:0.894684
	eval-rmspe:0.894684		
[42]	train-rmse:2.25782	eval-rmse:2.25782	train-rmspe:0.887306
	eval-rmspe:0.887306		
[43]	train-rmse:2.19153	eval-rmse:2.19153	train-rmspe:0.879626
	eval-rmspe:0.879626		
[44]	train-rmse:2.12718	eval-rmse:2.12718	train-rmspe:0.871701
	eval-rmspe:0.871701		
[45]	train-rmse:2.06473	eval-rmse:2.06473	train-rmspe:0.863566
	eval-rmspe:0.863566		
[46]	train-rmse:2.00431	eval-rmse:2.00431	train-rmspe:0.855138
	eval-rmspe:0.855138		
[47]	train-rmse:1.94576	eval-rmse:1.94576	train-rmspe:0.846454
	eval-rmspe:0.846454		
[48]	train-rmse:1.8889	eval-rmse:1.8889	train-rmspe:0.837595
	eval-rmspe:0.837595		
[49]	train-rmse:1.83385	eval-rmse:1.83385	train-rmspe:0.828474
	eval-rmspe:0.828474		
[50]	train-rmse:1.78047	eval-rmse:1.78047	train-rmspe:0.819157
	eval-rmspe:0.819157		
[51]	train-rmse:1.72877	eval-rmse:1.72877	train-rmspe:0.809631
	eval-rmspe:0.809631		

[52]	train-rmse:1.67857 eval-rmspe:0.79997	eval-rmse:1.67857	train-rmspe:0.79997
[53]	train-rmse:1.62983 eval-rmspe:0.790149	eval-rmse:1.62983	train-rmspe:0.790149
[54]	train-rmse:1.58268 eval-rmspe:0.780173	eval-rmse:1.58268	train-rmspe:0.780173
[55]	train-rmse:1.53699 eval-rmspe:0.770013	eval-rmse:1.53699	train-rmspe:0.770013
[56]	train-rmse:1.49258 eval-rmspe:0.759792	eval-rmse:1.49258	train-rmspe:0.759792
[57]	train-rmse:1.44974 eval-rmspe:0.749384	eval-rmse:1.44974	train-rmspe:0.749384
[58]	train-rmse:1.40802 eval-rmspe:0.738943	eval-rmse:1.40802	train-rmspe:0.738943
[59]	train-rmse:1.36756 eval-rmspe:0.728399	eval-rmse:1.36756	train-rmspe:0.728399
[60]	train-rmse:1.32845 eval-rmspe:0.717771	eval-rmse:1.32845	train-rmspe:0.717771
[61]	train-rmse:1.29061 eval-rmspe:0.707073	eval-rmse:1.29061	train-rmspe:0.707073
[62]	train-rmse:1.25399 eval-rmspe:0.696283	eval-rmse:1.25399	train-rmspe:0.696283
[63]	train-rmse:1.21841 eval-rmspe:0.685467	eval-rmse:1.21841	train-rmspe:0.685467
[64]	train-rmse:1.18382 eval-rmspe:0.674701	eval-rmse:1.18382	train-rmspe:0.674701
[65]	train-rmse:1.15031 eval-rmspe:0.663919	eval-rmse:1.15031	train-rmspe:0.663919
[66]	train-rmse:1.11802 eval-rmspe:0.653094	eval-rmse:1.11802	train-rmspe:0.653094
[67]	train-rmse:1.08666 eval-rmspe:0.642286	eval-rmse:1.08666	train-rmspe:0.642286
[68]	train-rmse:1.05621 eval-rmspe:0.631556	eval-rmse:1.05621	train-rmspe:0.631556
[69]	train-rmse:1.02684 eval-rmspe:0.62081	eval-rmse:1.02684	train-rmspe:0.62081
[70]	train-rmse:0.998375 eval-rmspe:0.610109	eval-rmse:0.998375	train-rmspe:0.610109
[71]	train-rmse:0.970491 eval-rmspe:0.599535	eval-rmse:0.970491	train-rmspe:0.599535
[72]	train-rmse:0.943894 eval-rmspe:0.588958	eval-rmse:0.943894	train-rmspe:0.588958
[73]	train-rmse:0.917807 eval-rmspe:0.578539	eval-rmse:0.917807	train-rmspe:0.578539
[74]	train-rmse:0.892742 eval-rmspe:0.568157	eval-rmse:0.892742	train-rmspe:0.568157
[75]	train-rmse:0.86821 eval-rmspe:0.557893	eval-rmse:0.86821	train-rmspe:0.557893

[76]	train-rmse:0.844598 eval-rmspe:0.547705	eval-rmse:0.844598	train-rmspe:0.547705
[77]	train-rmse:0.821855 eval-rmspe:0.537617	eval-rmse:0.821855	train-rmspe:0.537617
[78]	train-rmse:0.799951 eval-rmspe:0.527669	eval-rmse:0.799951	train-rmspe:0.527669
[79]	train-rmse:0.778642 eval-rmspe:0.517832	eval-rmse:0.778642	train-rmspe:0.517832
[80]	train-rmse:0.757986 eval-rmspe:0.508141	eval-rmse:0.757986	train-rmspe:0.508141
[81]	train-rmse:0.738188 eval-rmspe:0.498604	eval-rmse:0.738188	train-rmspe:0.498604
[82]	train-rmse:0.718692 eval-rmspe:0.489195	eval-rmse:0.718692	train-rmspe:0.489195
[83]	train-rmse:0.699861 eval-rmspe:0.479945	eval-rmse:0.699861	train-rmspe:0.479945
[84]	train-rmse:0.681806 eval-rmspe:0.470885	eval-rmse:0.681806	train-rmspe:0.470885
[85]	train-rmse:0.664257 eval-rmspe:0.461986	eval-rmse:0.664257	train-rmspe:0.461986
[86]	train-rmse:0.647498 eval-rmspe:0.453271	eval-rmse:0.647498	train-rmspe:0.453271
[87]	train-rmse:0.630978 eval-rmspe:0.44471	eval-rmse:0.630978	train-rmspe:0.44471
[88]	train-rmse:0.615149 eval-rmspe:0.436313	eval-rmse:0.615149	train-rmspe:0.436313
[89]	train-rmse:0.599451 eval-rmspe:0.428044	eval-rmse:0.599451	train-rmspe:0.428044
[90]	train-rmse:0.584737 eval-rmspe:0.420005	eval-rmse:0.584737	train-rmspe:0.420005
[91]	train-rmse:0.570343 eval-rmspe:0.412137	eval-rmse:0.570343	train-rmspe:0.412137
[92]	train-rmse:0.556631 eval-rmspe:0.404495	eval-rmse:0.556631	train-rmspe:0.404495
[93]	train-rmse:0.543374 eval-rmspe:0.397035	eval-rmse:0.543374	train-rmspe:0.397035
[94]	train-rmse:0.530364 eval-rmspe:0.389729	eval-rmse:0.530364	train-rmspe:0.389729
[95]	train-rmse:0.517765 eval-rmspe:0.382554	eval-rmse:0.517765	train-rmspe:0.382554
[96]	train-rmse:0.505688 eval-rmspe:0.375613	eval-rmse:0.505688	train-rmspe:0.375613
[97]	train-rmse:0.493959 eval-rmspe:0.368854	eval-rmse:0.493959	train-rmspe:0.368854
[98]	train-rmse:0.482598 eval-rmspe:0.362228	eval-rmse:0.482598	train-rmspe:0.362228
[99]	train-rmse:0.471765 eval-rmspe:0.355872	eval-rmse:0.471765	train-rmspe:0.355872

[100]	train-rmse:0.461259 eval-rmspe:0.349697	eval-rmse:0.461259	train-rmspe:0.349697
[101]	train-rmse:0.451237 eval-rmspe:0.343776	eval-rmse:0.451237	train-rmspe:0.343776
[102]	train-rmse:0.441642 eval-rmspe:0.338058	eval-rmse:0.441642	train-rmspe:0.338058
[103]	train-rmse:0.432306 eval-rmspe:0.332467	eval-rmse:0.432306	train-rmspe:0.332467
[104]	train-rmse:0.423207 eval-rmspe:0.327035	eval-rmse:0.423207	train-rmspe:0.327035
[105]	train-rmse:0.414393 eval-rmspe:0.321718	eval-rmse:0.414393	train-rmspe:0.321718
[106]	train-rmse:0.405879 eval-rmspe:0.316626	eval-rmse:0.405879	train-rmspe:0.316626
[107]	train-rmse:0.397725 eval-rmspe:0.31172	eval-rmse:0.397725	train-rmspe:0.31172
[108]	train-rmse:0.38975 eval-rmspe:0.306909	eval-rmse:0.38975	train-rmspe:0.306909
[109]	train-rmse:0.382137 eval-rmspe:0.302276	eval-rmse:0.382137	train-rmspe:0.302276
[110]	train-rmse:0.374936 eval-rmspe:0.297932	eval-rmse:0.374936	train-rmspe:0.297932
[111]	train-rmse:0.368065 eval-rmspe:0.293779	eval-rmse:0.368065	train-rmspe:0.293779
[112]	train-rmse:0.361489 eval-rmspe:0.289853	eval-rmse:0.361489	train-rmspe:0.289853
[113]	train-rmse:0.355079 eval-rmspe:0.286039	eval-rmse:0.355079	train-rmspe:0.286039
[114]	train-rmse:0.348519 eval-rmspe:0.282053	eval-rmse:0.348519	train-rmspe:0.282053
[115]	train-rmse:0.342687 eval-rmspe:0.278602	eval-rmse:0.342687	train-rmspe:0.278602
[116]	train-rmse:0.336925 eval-rmspe:0.275133	eval-rmse:0.336925	train-rmspe:0.275133
[117]	train-rmse:0.331084 eval-rmspe:0.271594	eval-rmse:0.331084	train-rmspe:0.271594
[118]	train-rmse:0.326022 eval-rmspe:0.268616	eval-rmse:0.326022	train-rmspe:0.268616
[119]	train-rmse:0.320749 eval-rmspe:0.265479	eval-rmse:0.320749	train-rmspe:0.265479
[120]	train-rmse:0.315991 eval-rmspe:0.262712	eval-rmse:0.315991	train-rmspe:0.262712
[121]	train-rmse:0.311206 eval-rmspe:0.259902	eval-rmse:0.311206	train-rmspe:0.259902
[122]	train-rmse:0.306693 eval-rmspe:0.25728	eval-rmse:0.306693	train-rmspe:0.25728
[123]	train-rmse:0.302461 eval-rmspe:0.254926	eval-rmse:0.302461	train-rmspe:0.254926

[124]	train-rmse:0.298126 eval-rmspe:0.252441	eval-rmse:0.298126	train-rmspe:0.252441
[125]	train-rmse:0.294154 eval-rmspe:0.250171	eval-rmse:0.294154	train-rmspe:0.250171
[126]	train-rmse:0.290298 eval-rmspe:0.24803	eval-rmse:0.290298	train-rmspe:0.24803
[127]	train-rmse:0.286684 eval-rmspe:0.246032	eval-rmse:0.286684	train-rmspe:0.246032
[128]	train-rmse:0.28321 eval-rmspe:0.244111	eval-rmse:0.28321	train-rmspe:0.244111
[129]	train-rmse:0.280018 eval-rmspe:0.24244	eval-rmse:0.280018	train-rmspe:0.24244
[130]	train-rmse:0.276842 eval-rmspe:0.240774	eval-rmse:0.276842	train-rmspe:0.240774
[131]	train-rmse:0.273898 eval-rmspe:0.239286	eval-rmse:0.273898	train-rmspe:0.239286
[132]	train-rmse:0.26985 eval-rmspe:0.236799	eval-rmse:0.26985	train-rmspe:0.236799
[133]	train-rmse:0.266861 eval-rmspe:0.235155	eval-rmse:0.266861	train-rmspe:0.235155
[134]	train-rmse:0.264012 eval-rmspe:0.23369	eval-rmse:0.264012	train-rmspe:0.23369
[135]	train-rmse:0.26151 eval-rmspe:0.232445	eval-rmse:0.26151	train-rmspe:0.232445
[136]	train-rmse:0.259013 eval-rmspe:0.231223	eval-rmse:0.259013	train-rmspe:0.231223
[137]	train-rmse:0.256858 eval-rmspe:0.230258	eval-rmse:0.256858	train-rmspe:0.230258
[138]	train-rmse:0.254767 eval-rmspe:0.229342	eval-rmse:0.254767	train-rmspe:0.229342
[139]	train-rmse:0.252027 eval-rmspe:0.227743	eval-rmse:0.252027	train-rmspe:0.227743
[140]	train-rmse:0.249339 eval-rmspe:0.226327	eval-rmse:0.249339	train-rmspe:0.226327
[141]	train-rmse:0.2471 eval-rmspe:0.22521	eval-rmse:0.2471	train-rmspe:0.22521
[142]	train-rmse:0.244959 eval-rmspe:0.224186	eval-rmse:0.244959	train-rmspe:0.224186
[143]	train-rmse:0.242997 eval-rmspe:0.223284	eval-rmse:0.242997	train-rmspe:0.223284
[144]	train-rmse:0.240971 eval-rmspe:0.222204	eval-rmse:0.240971	train-rmspe:0.222204
[145]	train-rmse:0.239148 eval-rmspe:0.221259	eval-rmse:0.239148	train-rmspe:0.221259
[146]	train-rmse:0.236387 eval-rmspe:0.219484	eval-rmse:0.236387	train-rmspe:0.219484
[147]	train-rmse:0.234853 eval-rmspe:0.218831	eval-rmse:0.234853	train-rmspe:0.218831

[148]	train-rmse:0.232592 eval-rmspe:0.217535	eval-rmse:0.232592	train-rmspe:0.217535
[149]	train-rmse:0.231042 eval-rmspe:0.216856	eval-rmse:0.231042	train-rmspe:0.216856
[150]	train-rmse:0.229628 eval-rmspe:0.216301	eval-rmse:0.229628	train-rmspe:0.216301
[151]	train-rmse:0.228151 eval-rmspe:0.215595	eval-rmse:0.228151	train-rmspe:0.215595
[152]	train-rmse:0.226304 eval-rmspe:0.214497	eval-rmse:0.226304	train-rmspe:0.214497
[153]	train-rmse:0.223734 eval-rmspe:0.212571	eval-rmse:0.223734	train-rmspe:0.212571
[154]	train-rmse:0.222651 eval-rmspe:0.212182	eval-rmse:0.222651	train-rmspe:0.212182
[155]	train-rmse:0.221165 eval-rmspe:0.211335	eval-rmse:0.221165	train-rmspe:0.211335
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[157]	train-rmse:0.217738 eval-rmspe:0.209244	eval-rmse:0.217738	train-rmspe:0.209244
[158]	train-rmse:0.216562 eval-rmspe:0.208673	eval-rmse:0.216562	train-rmspe:0.208673
[159]	train-rmse:0.215311 eval-rmspe:0.208049	eval-rmse:0.215311	train-rmspe:0.208049
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[162]	train-rmse:0.210665 eval-rmspe:0.205074	eval-rmse:0.210665	train-rmspe:0.205074
[163]	train-rmse:0.209397 eval-rmspe:0.204351	eval-rmse:0.209397	train-rmspe:0.204351
[164]	train-rmse:0.20756 eval-rmspe:0.203082	eval-rmse:0.20756	train-rmspe:0.203082
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[174]	train-rmse:0.199166 eval-rmspe:0.198858	eval-rmse:0.199166	train-rmspe:0.198858
[175]	train-rmse:0.198416 eval-rmspe:0.198433	eval-rmse:0.198416	train-rmspe:0.198433
[176]	train-rmse:0.197787 eval-rmspe:0.198123	eval-rmse:0.197787	train-rmspe:0.198123
[177]	train-rmse:0.197121 eval-rmspe:0.197759	eval-rmse:0.197121	train-rmspe:0.197759
[178]	train-rmse:0.196533 eval-rmspe:0.197478	eval-rmse:0.196533	train-rmspe:0.197478
[179]	train-rmse:0.195567 eval-rmspe:0.196828	eval-rmse:0.195567	train-rmspe:0.196828
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[185]	train-rmse:0.190233 eval-rmspe:0.192916	eval-rmse:0.190233	train-rmspe:0.192916
[186]	train-rmse:0.189246 eval-rmspe:0.192195	eval-rmse:0.189246	train-rmspe:0.192195
[187]	train-rmse:0.188614 eval-rmspe:0.191737	eval-rmse:0.188614	train-rmspe:0.191737
[188]	train-rmse:0.187684 eval-rmspe:0.190912	eval-rmse:0.187684	train-rmspe:0.190912
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[193]	train-rmse:0.185437 eval-rmspe:0.189586	eval-rmse:0.185437	train-rmspe:0.189586
[194]	train-rmse:0.184662 eval-rmspe:0.189025	eval-rmse:0.184662	train-rmspe:0.189025
[195]	train-rmse:0.183971 eval-rmspe:0.188483	eval-rmse:0.183971	train-rmspe:0.188483

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[198]	train-rmse:0.182668	eval-rmse:0.182668	train-rmspe:0.187641
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[199]	train-rmse:0.182209	eval-rmse:0.182209	train-rmspe:0.187359
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[203]	train-rmse:0.180021	eval-rmse:0.180021	train-rmspe:0.185651
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[204]	train-rmse:0.179474	eval-rmse:0.179474	train-rmspe:0.185187
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[205]	train-rmse:0.179261	eval-rmse:0.179261	train-rmspe:0.185075
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[206]	train-rmse:0.17899	eval-rmse:0.17899	train-rmspe:0.184924
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[207]	train-rmse:0.178678	eval-rmse:0.178678	train-rmspe:0.18471
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[208]	train-rmse:0.177707	eval-rmse:0.177707	train-rmspe:0.183885
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[209]	train-rmse:0.17694	eval-rmse:0.17694	train-rmspe:0.18318
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[210]	train-rmse:0.17629	eval-rmse:0.17629	train-rmspe:0.182645
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[211]	train-rmse:0.175959	eval-rmse:0.175959	train-rmspe:0.182402
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[212]	train-rmse:0.175787	eval-rmse:0.175787	train-rmspe:0.182336
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[213]	train-rmse:0.174792	eval-rmse:0.174792	train-rmspe:0.181308
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[214]	train-rmse:0.173991	eval-rmse:0.173991	train-rmspe:0.18057
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[215]	train-rmse:0.172894	eval-rmse:0.172894	train-rmspe:0.179463
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[216]	train-rmse:0.171808	eval-rmse:0.171808	train-rmspe:0.178384
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[217]	train-rmse:0.171317	eval-rmse:0.171317	train-rmspe:0.177955
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[218]	train-rmse:0.170966	eval-rmse:0.170966	train-rmspe:0.17766
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[222]	train-rmse:0.169504 eval-rmspe:0.17649	eval-rmse:0.169504	train-rmspe:0.17649
[223]	train-rmse:0.16898 eval-rmspe:0.176042	eval-rmse:0.16898	train-rmspe:0.176042
[224]	train-rmse:0.168611 eval-rmspe:0.175723	eval-rmse:0.168611	train-rmspe:0.175723
[225]	train-rmse:0.168265 eval-rmspe:0.175435	eval-rmse:0.168265	train-rmspe:0.175435
[226]	train-rmse:0.167909 eval-rmspe:0.175134	eval-rmse:0.167909	train-rmspe:0.175134
[227]	train-rmse:0.167753 eval-rmspe:0.175043	eval-rmse:0.167753	train-rmspe:0.175043
[228]	train-rmse:0.167149 eval-rmspe:0.17446	eval-rmse:0.167149	train-rmspe:0.17446
[229]	train-rmse:0.166561 eval-rmspe:0.173908	eval-rmse:0.166561	train-rmspe:0.173908
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[233]	train-rmse:0.164296 eval-rmspe:0.171579	eval-rmse:0.164296	train-rmspe:0.171579
[234]	train-rmse:0.163923 eval-rmspe:0.171258	eval-rmse:0.163923	train-rmspe:0.171258
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[236]	train-rmse:0.162645 eval-rmspe:0.169985	eval-rmse:0.162645	train-rmspe:0.169985
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[240]	train-rmse:0.161032 eval-rmspe:0.168494	eval-rmse:0.161032	train-rmspe:0.168494
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[243]	train-rmse:0.158437 eval-rmspe:0.165867	eval-rmse:0.158437	train-rmspe:0.165867

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[247]	train-rmse:0.157162 eval-rmspe:0.164663	eval-rmse:0.157162	train-rmspe:0.164663
[248]	train-rmse:0.156731 eval-rmspe:0.164225	eval-rmse:0.156731	train-rmspe:0.164225
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[250]	train-rmse:0.155431 eval-rmspe:0.162899	eval-rmse:0.155431	train-rmspe:0.162899
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[265]	train-rmse:0.147975 eval-rmspe:0.155106	eval-rmse:0.147975	train-rmspe:0.155106
[266]	train-rmse:0.147638 eval-rmspe:0.154745	eval-rmse:0.147638	train-rmspe:0.154745
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[287]	train-rmse:0.139342 eval-rmspe:0.14617	eval-rmse:0.139342	train-rmspe:0.14617
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[289]	train-rmse:0.138871 eval-rmspe:0.14571	eval-rmse:0.138871	train-rmspe:0.14571
[290]	train-rmse:0.138587 eval-rmspe:0.1454	eval-rmse:0.138587	train-rmspe:0.1454
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[293]	train-rmse:0.137729 eval-rmspe:0.144503	eval-rmse:0.137729	train-rmspe:0.144503
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[296]	train-rmse:0.136529 eval-rmspe:0.143264	eval-rmse:0.136529	train-rmspe:0.143264
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[367]	train-rmse:0.114822 eval-rmspe:0.120281	eval-rmse:0.114822	train-rmspe:0.120281
[368]	train-rmse:0.114459 eval-rmspe:0.119888	eval-rmse:0.114459	train-rmspe:0.119888
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[389]	train-rmse:0.109203	eval-rmse:0.109203	train-rmspe:0.114241
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[392]	train-rmse:0.108749	eval-rmse:0.108749	train-rmspe:0.113758
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[394]	train-rmse:0.108405	eval-rmse:0.108405	train-rmspe:0.11333
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[398]	train-rmse:0.107959	eval-rmse:0.107959	train-rmspe:0.11286
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[407]	train-rmse:0.105835	eval-rmse:0.105835	train-rmspe:0.110531
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[409]	train-rmse:0.105533	eval-rmse:0.105533	train-rmspe:0.110199
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[416]	train-rmse:0.104166	eval-rmse:0.104166	train-rmspe:0.108768
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[417]	train-rmse:0.104075	eval-rmse:0.104075	train-rmspe:0.108673
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[484]	train-rmse:0.092688 eval-rmspe:0.096092	eval-rmse:0.092688	train-rmspe:0.096092
[485]	train-rmse:0.092568 eval-rmspe:0.095966	eval-rmse:0.092568	train-rmspe:0.095966
[486]	train-rmse:0.092491 eval-rmspe:0.095886	eval-rmse:0.092491	train-rmspe:0.095886
[487]	train-rmse:0.092413 eval-rmspe:0.095808	eval-rmse:0.092413	train-rmspe:0.095808
[488]	train-rmse:0.09229 eval-rmspe:0.095677	eval-rmse:0.09229	train-rmspe:0.095677
[489]	train-rmse:0.092194 eval-rmspe:0.095585	eval-rmse:0.092194	train-rmspe:0.095585
[490]	train-rmse:0.09178 eval-rmspe:0.095073	eval-rmse:0.09178	train-rmspe:0.095073
[491]	train-rmse:0.091664 eval-rmspe:0.094949	eval-rmse:0.091664	train-rmspe:0.094949
[492]	train-rmse:0.091526 eval-rmspe:0.094801	eval-rmse:0.091526	train-rmspe:0.094801
[493]	train-rmse:0.091284 eval-rmspe:0.094493	eval-rmse:0.091284	train-rmspe:0.094493
[494]	train-rmse:0.091144 eval-rmspe:0.094339	eval-rmse:0.091144	train-rmspe:0.094339
[495]	train-rmse:0.091006 eval-rmspe:0.094185	eval-rmse:0.091006	train-rmspe:0.094185
[496]	train-rmse:0.09092 eval-rmspe:0.094093	eval-rmse:0.09092	train-rmspe:0.094093
[497]	train-rmse:0.090731 eval-rmspe:0.093892	eval-rmse:0.090731	train-rmspe:0.093892
[498]	train-rmse:0.090576 eval-rmspe:0.093734	eval-rmse:0.090576	train-rmspe:0.093734
[499]	train-rmse:0.090513 eval-rmspe:0.093666	eval-rmse:0.090513	train-rmspe:0.093666
[500]	train-rmse:0.090427 eval-rmspe:0.093577	eval-rmse:0.090427	train-rmspe:0.093577
[501]	train-rmse:0.09021 eval-rmspe:0.093337	eval-rmse:0.09021	train-rmspe:0.093337
[502]	train-rmse:0.090075 eval-rmspe:0.093199	eval-rmse:0.090075	train-rmspe:0.093199
[503]	train-rmse:0.089828 eval-rmspe:0.092882	eval-rmse:0.089828	train-rmspe:0.092882
[504]	train-rmse:0.089802 eval-rmspe:0.092852	eval-rmse:0.089802	train-rmspe:0.092852
[505]	train-rmse:0.089556 eval-rmspe:0.092584	eval-rmse:0.089556	train-rmspe:0.092584
[506]	train-rmse:0.089378 eval-rmspe:0.092394	eval-rmse:0.089378	train-rmspe:0.092394
[507]	train-rmse:0.08927 eval-rmspe:0.092274	eval-rmse:0.08927	train-rmspe:0.092274

[508]	train-rmse:0.089094 eval-rmspe:0.09208	eval-rmse:0.089094	train-rmspe:0.09208
[509]	train-rmse:0.088953 eval-rmspe:0.09192	eval-rmse:0.088953	train-rmspe:0.09192
[510]	train-rmse:0.088792 eval-rmspe:0.09176	eval-rmse:0.088792	train-rmspe:0.09176
[511]	train-rmse:0.088709 eval-rmspe:0.091675	eval-rmse:0.088709	train-rmspe:0.091675
[512]	train-rmse:0.088592 eval-rmspe:0.091552	eval-rmse:0.088592	train-rmspe:0.091552
[513]	train-rmse:0.088437 eval-rmspe:0.091354	eval-rmse:0.088437	train-rmspe:0.091354
[514]	train-rmse:0.088337 eval-rmspe:0.091251	eval-rmse:0.088337	train-rmspe:0.091251
[515]	train-rmse:0.08824 eval-rmspe:0.091156	eval-rmse:0.08824	train-rmspe:0.091156
[516]	train-rmse:0.088139 eval-rmspe:0.091056	eval-rmse:0.088139	train-rmspe:0.091056
[517]	train-rmse:0.088007 eval-rmspe:0.090912	eval-rmse:0.088007	train-rmspe:0.090912
[518]	train-rmse:0.087721 eval-rmspe:0.090538	eval-rmse:0.087721	train-rmspe:0.090538
[519]	train-rmse:0.087622 eval-rmspe:0.090432	eval-rmse:0.087622	train-rmspe:0.090432
[520]	train-rmse:0.087396 eval-rmspe:0.090192	eval-rmse:0.087396	train-rmspe:0.090192
[521]	train-rmse:0.087257 eval-rmspe:0.090033	eval-rmse:0.087257	train-rmspe:0.090033
[522]	train-rmse:0.087123 eval-rmspe:0.089889	eval-rmse:0.087123	train-rmspe:0.089889
[523]	train-rmse:0.086992 eval-rmspe:0.08975	eval-rmse:0.086992	train-rmspe:0.08975
[524]	train-rmse:0.086885 eval-rmspe:0.089642	eval-rmse:0.086885	train-rmspe:0.089642
[525]	train-rmse:0.086802 eval-rmspe:0.089559	eval-rmse:0.086802	train-rmspe:0.089559
[526]	train-rmse:0.086744 eval-rmspe:0.089499	eval-rmse:0.086744	train-rmspe:0.089499
[527]	train-rmse:0.086607 eval-rmspe:0.089363	eval-rmse:0.086607	train-rmspe:0.089363
[528]	train-rmse:0.086544 eval-rmspe:0.089297	eval-rmse:0.086544	train-rmspe:0.089297
[529]	train-rmse:0.086356 eval-rmspe:0.089054	eval-rmse:0.086356	train-rmspe:0.089054
[530]	train-rmse:0.086199 eval-rmspe:0.088889	eval-rmse:0.086199	train-rmspe:0.088889
[531]	train-rmse:0.08609 eval-rmspe:0.088747	eval-rmse:0.08609	train-rmspe:0.088747

[532]	train-rmse:0.086038 eval-rmspe:0.088684	eval-rmse:0.086038	train-rmspe:0.088684
[533]	train-rmse:0.085832 eval-rmspe:0.088473	eval-rmse:0.085832	train-rmspe:0.088473
[534]	train-rmse:0.085709 eval-rmspe:0.088339	eval-rmse:0.085709	train-rmspe:0.088339
[535]	train-rmse:0.08563 eval-rmspe:0.088255	eval-rmse:0.08563	train-rmspe:0.088255
[536]	train-rmse:0.085468 eval-rmspe:0.088088	eval-rmse:0.085468	train-rmspe:0.088088
[537]	train-rmse:0.085345 eval-rmspe:0.08796	eval-rmse:0.085345	train-rmspe:0.08796
[538]	train-rmse:0.085229 eval-rmspe:0.087838	eval-rmse:0.085229	train-rmspe:0.087838
[539]	train-rmse:0.085106 eval-rmspe:0.087706	eval-rmse:0.085106	train-rmspe:0.087706
[540]	train-rmse:0.085017 eval-rmspe:0.087608	eval-rmse:0.085017	train-rmspe:0.087608
[541]	train-rmse:0.084914 eval-rmspe:0.087496	eval-rmse:0.084914	train-rmspe:0.087496
[542]	train-rmse:0.084706 eval-rmspe:0.087255	eval-rmse:0.084706	train-rmspe:0.087255
[543]	train-rmse:0.084684 eval-rmspe:0.087233	eval-rmse:0.084684	train-rmspe:0.087233
[544]	train-rmse:0.084577 eval-rmspe:0.087124	eval-rmse:0.084577	train-rmspe:0.087124
[545]	train-rmse:0.084469 eval-rmspe:0.087014	eval-rmse:0.084469	train-rmspe:0.087014
[546]	train-rmse:0.084338 eval-rmspe:0.08685	eval-rmse:0.084338	train-rmspe:0.08685
[547]	train-rmse:0.084187 eval-rmspe:0.086692	eval-rmse:0.084187	train-rmspe:0.086692
[548]	train-rmse:0.084064 eval-rmspe:0.086559	eval-rmse:0.084064	train-rmspe:0.086559
[549]	train-rmse:0.083937 eval-rmspe:0.086422	eval-rmse:0.083937	train-rmspe:0.086422
[550]	train-rmse:0.083914 eval-rmspe:0.086396	eval-rmse:0.083914	train-rmspe:0.086396
[551]	train-rmse:0.083727 eval-rmspe:0.086166	eval-rmse:0.083727	train-rmspe:0.086166
[552]	train-rmse:0.083609 eval-rmspe:0.086037	eval-rmse:0.083609	train-rmspe:0.086037
[553]	train-rmse:0.083524 eval-rmspe:0.085943	eval-rmse:0.083524	train-rmspe:0.085943
[554]	train-rmse:0.083353 eval-rmspe:0.085753	eval-rmse:0.083353	train-rmspe:0.085753
[555]	train-rmse:0.08332 eval-rmspe:0.085719	eval-rmse:0.08332	train-rmspe:0.085719

[556]	train-rmse:0.083165 eval-rmspe:0.085551	eval-rmse:0.083165	train-rmspe:0.085551
[557]	train-rmse:0.08301 eval-rmspe:0.08539	eval-rmse:0.08301	train-rmspe:0.08539
[558]	train-rmse:0.082923 eval-rmspe:0.085301	eval-rmse:0.082923	train-rmspe:0.085301
[559]	train-rmse:0.082807 eval-rmspe:0.085144	eval-rmse:0.082807	train-rmspe:0.085144
[560]	train-rmse:0.082659 eval-rmspe:0.084966	eval-rmse:0.082659	train-rmspe:0.084966
[561]	train-rmse:0.082481 eval-rmspe:0.084762	eval-rmse:0.082481	train-rmspe:0.084762
[562]	train-rmse:0.082425 eval-rmspe:0.084706	eval-rmse:0.082425	train-rmspe:0.084706
[563]	train-rmse:0.082312 eval-rmspe:0.084583	eval-rmse:0.082312	train-rmspe:0.084583
[564]	train-rmse:0.08215 eval-rmspe:0.084415	eval-rmse:0.08215	train-rmspe:0.084415
[565]	train-rmse:0.082015 eval-rmspe:0.084272	eval-rmse:0.082015	train-rmspe:0.084272
[566]	train-rmse:0.081854 eval-rmspe:0.084103	eval-rmse:0.081854	train-rmspe:0.084103
[567]	train-rmse:0.081842 eval-rmspe:0.084092	eval-rmse:0.081842	train-rmspe:0.084092
[568]	train-rmse:0.081709 eval-rmspe:0.08395	eval-rmse:0.081709	train-rmspe:0.08395
[569]	train-rmse:0.081599 eval-rmspe:0.083813	eval-rmse:0.081599	train-rmspe:0.083813
[570]	train-rmse:0.081524 eval-rmspe:0.083735	eval-rmse:0.081524	train-rmspe:0.083735
[571]	train-rmse:0.08141 eval-rmspe:0.083585	eval-rmse:0.08141	train-rmspe:0.083585
[572]	train-rmse:0.081276 eval-rmspe:0.08345	eval-rmse:0.081276	train-rmspe:0.08345
[573]	train-rmse:0.081163 eval-rmspe:0.083335	eval-rmse:0.081163	train-rmspe:0.083335
[574]	train-rmse:0.080973 eval-rmspe:0.083134	eval-rmse:0.080973	train-rmspe:0.083134
[575]	train-rmse:0.080888 eval-rmspe:0.083044	eval-rmse:0.080888	train-rmspe:0.083044
[576]	train-rmse:0.080766 eval-rmspe:0.082921	eval-rmse:0.080766	train-rmspe:0.082921
[577]	train-rmse:0.080662 eval-rmspe:0.082814	eval-rmse:0.080662	train-rmspe:0.082814
[578]	train-rmse:0.080622 eval-rmspe:0.082775	eval-rmse:0.080622	train-rmspe:0.082775
[579]	train-rmse:0.080589 eval-rmspe:0.082737	eval-rmse:0.080589	train-rmspe:0.082737

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[580]   train-rmse:0.080552   eval-rmse:0.080552   train-rmspe:0.082701
eval-rmspe:0.082701
[581]   train-rmse:0.080524   eval-rmse:0.080524   train-rmspe:0.082674
eval-rmspe:0.082674
[582]   train-rmse:0.080479   eval-rmse:0.080479   train-rmspe:0.082626
eval-rmspe:0.082626
[583]   train-rmse:0.080469   eval-rmse:0.080469   train-rmspe:0.082615
eval-rmspe:0.082615
[584]   train-rmse:0.080338   eval-rmse:0.080338   train-rmspe:0.082477
eval-rmspe:0.082477
[585]   train-rmse:0.080247   eval-rmse:0.080247   train-rmspe:0.082352
eval-rmspe:0.082352
[586]   train-rmse:0.0801     eval-rmse:0.0801     train-rmspe:0.082171
eval-rmspe:0.082171
[587]   train-rmse:0.080005   eval-rmse:0.080005   train-rmspe:0.082075
eval-rmspe:0.082075
[588]   train-rmse:0.079942   eval-rmse:0.079942   train-rmspe:0.082007
eval-rmspe:0.082007
[589]   train-rmse:0.079852   eval-rmse:0.079852   train-rmspe:0.081911
eval-rmspe:0.081911
[590]   train-rmse:0.079642   eval-rmse:0.079642   train-rmspe:0.081683
eval-rmspe:0.081683
[591]   train-rmse:0.079555   eval-rmse:0.079555   train-rmspe:0.081593
eval-rmspe:0.081593
[592]   train-rmse:0.079373   eval-rmse:0.079373   train-rmspe:0.081387
eval-rmspe:0.081387
[593]   train-rmse:0.079197   eval-rmse:0.079197   train-rmspe:0.081192
eval-rmspe:0.081192
[594]   train-rmse:0.079169   eval-rmse:0.079169   train-rmspe:0.081165
eval-rmspe:0.081165
[595]   train-rmse:0.079012   eval-rmse:0.079012   train-rmspe:0.080993
eval-rmspe:0.080993
[596]   train-rmse:0.078919   eval-rmse:0.078919   train-rmspe:0.080889
eval-rmspe:0.080889
[597]   train-rmse:0.078863   eval-rmse:0.078863   train-rmspe:0.080831
eval-rmspe:0.080831
[598]   train-rmse:0.078734   eval-rmse:0.078734   train-rmspe:0.080694
eval-rmspe:0.080694
[599]   train-rmse:0.078654   eval-rmse:0.078654   train-rmspe:0.080607
eval-rmspe:0.080607
round 8 end
round 9:
[0]     train-rmse:8.02738     eval-rmse:8.02738     train-rmspe:0.99981
eval-rmspe:0.99981
Multiple eval metrics have been passed: 'eval-rmspe' will be used for early
stopping.

```

Will train until eval-rmspe hasn't improved in 100 rounds.

[1]	train-rmse:7.7871	eval-rmse:7.7871	train-rmspe:0.999713
	eval-rmspe:0.999713		
[2]	train-rmse:7.55403	eval-rmse:7.55403	train-rmspe:0.999593
	eval-rmspe:0.999593		
[3]	train-rmse:7.32794	eval-rmse:7.32794	train-rmspe:0.999448
	eval-rmspe:0.999448		
[4]	train-rmse:7.10867	eval-rmse:7.10867	train-rmspe:0.999271
	eval-rmspe:0.999271		
[5]	train-rmse:6.89603	eval-rmse:6.89603	train-rmspe:0.999059
	eval-rmspe:0.999059		
[6]	train-rmse:6.68977	eval-rmse:6.68977	train-rmspe:0.998806
	eval-rmspe:0.998806		
[7]	train-rmse:6.48972	eval-rmse:6.48972	train-rmspe:0.998505
	eval-rmspe:0.998505		
[8]	train-rmse:6.29567	eval-rmse:6.29567	train-rmspe:0.998149
	eval-rmspe:0.998149		
[9]	train-rmse:6.10741	eval-rmse:6.10741	train-rmspe:0.997732
	eval-rmspe:0.997732		
[10]	train-rmse:5.92485	eval-rmse:5.92485	train-rmspe:0.997245
	eval-rmspe:0.997245		
[11]	train-rmse:5.74782	eval-rmse:5.74782	train-rmspe:0.99668
	eval-rmspe:0.99668		
[12]	train-rmse:5.57609	eval-rmse:5.57609	train-rmspe:0.996029
	eval-rmspe:0.996029		
[13]	train-rmse:5.40955	eval-rmse:5.40955	train-rmspe:0.995281
	eval-rmspe:0.995281		
[14]	train-rmse:5.24798	eval-rmse:5.24798	train-rmspe:0.994427
	eval-rmspe:0.994427		
[15]	train-rmse:5.09131	eval-rmse:5.09131	train-rmspe:0.993456
	eval-rmspe:0.993456		
[16]	train-rmse:4.93935	eval-rmse:4.93935	train-rmspe:0.992358
	eval-rmspe:0.992358		
[17]	train-rmse:4.79197	eval-rmse:4.79197	train-rmspe:0.991122
	eval-rmspe:0.991122		
[18]	train-rmse:4.64906	eval-rmse:4.64906	train-rmspe:0.989737
	eval-rmspe:0.989737		
[19]	train-rmse:4.51045	eval-rmse:4.51045	train-rmspe:0.988192
	eval-rmspe:0.988192		
[20]	train-rmse:4.37597	eval-rmse:4.37597	train-rmspe:0.986475
	eval-rmspe:0.986475		
[21]	train-rmse:4.24554	eval-rmse:4.24554	train-rmspe:0.984575
	eval-rmspe:0.984575		
[22]	train-rmse:4.11909	eval-rmse:4.11909	train-rmspe:0.982479
	eval-rmspe:0.982479		
[23]	train-rmse:3.99641	eval-rmse:3.99641	train-rmspe:0.980179
	eval-rmspe:0.980179		
[24]	train-rmse:3.87749	eval-rmse:3.87749	train-rmspe:0.977659
	eval-rmspe:0.977659		

[25]	train-rmse:3.76213 eval-rmspe:0.974917	eval-rmse:3.76213	train-rmspe:0.974917
[26]	train-rmse:3.65023 eval-rmspe:0.971938	eval-rmse:3.65023	train-rmspe:0.971938
[27]	train-rmse:3.54169 eval-rmspe:0.968716	eval-rmse:3.54169	train-rmspe:0.968716
[28]	train-rmse:3.43652 eval-rmspe:0.965239	eval-rmse:3.43652	train-rmspe:0.965239
[29]	train-rmse:3.33446 eval-rmspe:0.961505	eval-rmse:3.33446	train-rmspe:0.961505
[30]	train-rmse:3.23549 eval-rmspe:0.957504	eval-rmse:3.23549	train-rmspe:0.957504
[31]	train-rmse:3.13953 eval-rmspe:0.953228	eval-rmse:3.13953	train-rmspe:0.953228
[32]	train-rmse:3.04644 eval-rmspe:0.948669	eval-rmse:3.04644	train-rmspe:0.948669
[33]	train-rmse:2.95617 eval-rmspe:0.94384	eval-rmse:2.95617	train-rmspe:0.94384
[34]	train-rmse:2.86867 eval-rmspe:0.938716	eval-rmse:2.86867	train-rmspe:0.938716
[35]	train-rmse:2.78381 eval-rmspe:0.93331	eval-rmse:2.78381	train-rmspe:0.93331
[36]	train-rmse:2.70154 eval-rmspe:0.927605	eval-rmse:2.70154	train-rmspe:0.927605
[37]	train-rmse:2.62176 eval-rmspe:0.921602	eval-rmse:2.62176	train-rmspe:0.921602
[38]	train-rmse:2.54442 eval-rmspe:0.915312	eval-rmse:2.54442	train-rmspe:0.915312
[39]	train-rmse:2.4694 eval-rmspe:0.908741	eval-rmse:2.4694	train-rmspe:0.908741
[40]	train-rmse:2.39667 eval-rmspe:0.901895	eval-rmse:2.39667	train-rmspe:0.901895
[41]	train-rmse:2.32616 eval-rmspe:0.894763	eval-rmse:2.32616	train-rmspe:0.894763
[42]	train-rmse:2.25779 eval-rmspe:0.887344	eval-rmse:2.25779	train-rmspe:0.887344
[43]	train-rmse:2.19156 eval-rmspe:0.879654	eval-rmse:2.19156	train-rmspe:0.879654
[44]	train-rmse:2.12725 eval-rmspe:0.871752	eval-rmse:2.12725	train-rmspe:0.871752
[45]	train-rmse:2.06491 eval-rmspe:0.863578	eval-rmse:2.06491	train-rmspe:0.863578
[46]	train-rmse:2.00443 eval-rmspe:0.855168	eval-rmse:2.00443	train-rmspe:0.855168
[47]	train-rmse:1.94589 eval-rmspe:0.846487	eval-rmse:1.94589	train-rmspe:0.846487
[48]	train-rmse:1.8891 eval-rmspe:0.837622	eval-rmse:1.8891	train-rmspe:0.837622

[49]	train-rmse:1.83403	eval-rmse:1.83403	train-rmspe:0.828512
	eval-rmspe:0.828512		
[50]	train-rmse:1.78063	eval-rmse:1.78063	train-rmspe:0.819203
	eval-rmspe:0.819203		
[51]	train-rmse:1.72895	eval-rmse:1.72895	train-rmspe:0.809683
	eval-rmspe:0.809683		
[52]	train-rmse:1.67884	eval-rmse:1.67884	train-rmspe:0.79999
	eval-rmspe:0.79999		
[53]	train-rmse:1.63014	eval-rmse:1.63014	train-rmspe:0.790161
	eval-rmspe:0.790161		
[54]	train-rmse:1.58307	eval-rmse:1.58307	train-rmspe:0.780128
	eval-rmspe:0.780128		
[55]	train-rmse:1.53718	eval-rmse:1.53718	train-rmspe:0.770084
	eval-rmspe:0.770084		
[56]	train-rmse:1.4927	eval-rmse:1.4927	train-rmspe:0.759886
	eval-rmspe:0.759886		
[57]	train-rmse:1.44969	eval-rmse:1.44969	train-rmspe:0.749538
	eval-rmspe:0.749538		
[58]	train-rmse:1.40814	eval-rmse:1.40814	train-rmspe:0.739015
	eval-rmspe:0.739015		
[59]	train-rmse:1.36783	eval-rmse:1.36783	train-rmspe:0.72843
	eval-rmspe:0.72843		
[60]	train-rmse:1.32861	eval-rmse:1.32861	train-rmspe:0.717818
	eval-rmspe:0.717818		
[61]	train-rmse:1.29063	eval-rmse:1.29063	train-rmspe:0.707136
	eval-rmspe:0.707136		
[62]	train-rmse:1.25352	eval-rmse:1.25352	train-rmspe:0.696463
	eval-rmspe:0.696463		
[63]	train-rmse:1.21788	eval-rmse:1.21788	train-rmspe:0.685682
	eval-rmspe:0.685682		
[64]	train-rmse:1.18339	eval-rmse:1.18339	train-rmspe:0.674842
	eval-rmspe:0.674842		
[65]	train-rmse:1.14988	eval-rmse:1.14988	train-rmspe:0.664041
	eval-rmspe:0.664041		
[66]	train-rmse:1.11759	eval-rmse:1.11759	train-rmspe:0.653184
	eval-rmspe:0.653184		
[67]	train-rmse:1.08632	eval-rmse:1.08632	train-rmspe:0.642343
	eval-rmspe:0.642343		
[68]	train-rmse:1.05571	eval-rmse:1.05571	train-rmspe:0.631604
	eval-rmspe:0.631604		
[69]	train-rmse:1.02632	eval-rmse:1.02632	train-rmspe:0.620851
	eval-rmspe:0.620851		
[70]	train-rmse:0.997692	eval-rmse:0.997692	train-rmspe:0.610169
	eval-rmspe:0.610169		
[71]	train-rmse:0.969945	eval-rmse:0.969945	train-rmspe:0.599528
	eval-rmspe:0.599528		
[72]	train-rmse:0.943132	eval-rmse:0.943132	train-rmspe:0.588959
	eval-rmspe:0.588959		

[73]	train-rmse:0.916932 eval-rmspe:0.578492	eval-rmse:0.916932	train-rmspe:0.578492
[74]	train-rmse:0.891776 eval-rmspe:0.568068	eval-rmse:0.891776	train-rmspe:0.568068
[75]	train-rmse:0.867235 eval-rmspe:0.557781	eval-rmse:0.867235	train-rmspe:0.557781
[76]	train-rmse:0.8435 eval-rmspe:0.547578	eval-rmse:0.8435	train-rmspe:0.547578
[77]	train-rmse:0.820477 eval-rmspe:0.537486	eval-rmse:0.820477	train-rmspe:0.537486
[78]	train-rmse:0.798378 eval-rmspe:0.527493	eval-rmse:0.798378	train-rmspe:0.527493
[79]	train-rmse:0.777124 eval-rmspe:0.517635	eval-rmse:0.777124	train-rmspe:0.517635
[80]	train-rmse:0.756524 eval-rmspe:0.507913	eval-rmse:0.756524	train-rmspe:0.507913
[81]	train-rmse:0.736408 eval-rmspe:0.498334	eval-rmse:0.736408	train-rmspe:0.498334
[82]	train-rmse:0.717198 eval-rmspe:0.488914	eval-rmse:0.717198	train-rmspe:0.488914
[83]	train-rmse:0.698549 eval-rmspe:0.479659	eval-rmse:0.698549	train-rmspe:0.479659
[84]	train-rmse:0.680273 eval-rmspe:0.470542	eval-rmse:0.680273	train-rmspe:0.470542
[85]	train-rmse:0.662888 eval-rmspe:0.461617	eval-rmse:0.662888	train-rmspe:0.461617
[86]	train-rmse:0.645855 eval-rmspe:0.452823	eval-rmse:0.645855	train-rmspe:0.452823
[87]	train-rmse:0.629454 eval-rmspe:0.444203	eval-rmse:0.629454	train-rmspe:0.444203
[88]	train-rmse:0.613582 eval-rmspe:0.435768	eval-rmse:0.613582	train-rmspe:0.435768
[89]	train-rmse:0.598207 eval-rmspe:0.427499	eval-rmse:0.598207	train-rmspe:0.427499
[90]	train-rmse:0.583495 eval-rmspe:0.419443	eval-rmse:0.583495	train-rmspe:0.419443
[91]	train-rmse:0.568889 eval-rmspe:0.411471	eval-rmse:0.568889	train-rmspe:0.411471
[92]	train-rmse:0.554583 eval-rmspe:0.403646	eval-rmse:0.554583	train-rmspe:0.403646
[93]	train-rmse:0.54121 eval-rmspe:0.396133	eval-rmse:0.54121	train-rmspe:0.396133
[94]	train-rmse:0.528445 eval-rmspe:0.388828	eval-rmse:0.528445	train-rmspe:0.388828
[95]	train-rmse:0.515769 eval-rmspe:0.38159	eval-rmse:0.515769	train-rmspe:0.38159
[96]	train-rmse:0.503821 eval-rmspe:0.374663	eval-rmse:0.503821	train-rmspe:0.374663

[97]	train-rmse:0.49218 eval-rmspe:0.367893	eval-rmse:0.49218	train-rmspe:0.367893
[98]	train-rmse:0.480855 eval-rmspe:0.361291	eval-rmse:0.480855	train-rmspe:0.361291
[99]	train-rmse:0.470099 eval-rmspe:0.35492	eval-rmse:0.470099	train-rmspe:0.35492
[100]	train-rmse:0.459571 eval-rmspe:0.348712	eval-rmse:0.459571	train-rmspe:0.348712
[101]	train-rmse:0.449618 eval-rmspe:0.342728	eval-rmse:0.449618	train-rmspe:0.342728
[102]	train-rmse:0.439879 eval-rmspe:0.336924	eval-rmse:0.439879	train-rmspe:0.336924
[103]	train-rmse:0.430661 eval-rmspe:0.331352	eval-rmse:0.430661	train-rmspe:0.331352
[104]	train-rmse:0.421558 eval-rmspe:0.325876	eval-rmse:0.421558	train-rmspe:0.325876
[105]	train-rmse:0.41289 eval-rmspe:0.320617	eval-rmse:0.41289	train-rmspe:0.320617
[106]	train-rmse:0.404339 eval-rmspe:0.315483	eval-rmse:0.404339	train-rmspe:0.315483
[107]	train-rmse:0.396362 eval-rmspe:0.310609	eval-rmse:0.396362	train-rmspe:0.310609
[108]	train-rmse:0.388748 eval-rmspe:0.305999	eval-rmse:0.388748	train-rmspe:0.305999
[109]	train-rmse:0.381202 eval-rmspe:0.301434	eval-rmse:0.381202	train-rmspe:0.301434
[110]	train-rmse:0.374067 eval-rmspe:0.297143	eval-rmse:0.374067	train-rmspe:0.297143
[111]	train-rmse:0.367181 eval-rmspe:0.292971	eval-rmse:0.367181	train-rmspe:0.292971
[112]	train-rmse:0.36048 eval-rmspe:0.288874	eval-rmse:0.36048	train-rmspe:0.288874
[113]	train-rmse:0.354113 eval-rmspe:0.28503	eval-rmse:0.354113	train-rmspe:0.28503
[114]	train-rmse:0.348068 eval-rmspe:0.281446	eval-rmse:0.348068	train-rmspe:0.281446
[115]	train-rmse:0.342138 eval-rmspe:0.277902	eval-rmse:0.342138	train-rmspe:0.277902
[116]	train-rmse:0.336018 eval-rmspe:0.274159	eval-rmse:0.336018	train-rmspe:0.274159
[117]	train-rmse:0.330432 eval-rmspe:0.270787	eval-rmse:0.330432	train-rmspe:0.270787
[118]	train-rmse:0.325265 eval-rmspe:0.267718	eval-rmse:0.325265	train-rmspe:0.267718
[119]	train-rmse:0.320132 eval-rmspe:0.264668	eval-rmse:0.320132	train-rmspe:0.264668
[120]	train-rmse:0.315159 eval-rmspe:0.261787	eval-rmse:0.315159	train-rmspe:0.261787

[121]	train-rmse:0.310415 eval-rmspe:0.259007	eval-rmse:0.310415	train-rmspe:0.259007
[122]	train-rmse:0.305846 eval-rmspe:0.256357	eval-rmse:0.305846	train-rmspe:0.256357
[123]	train-rmse:0.301676 eval-rmspe:0.254017	eval-rmse:0.301676	train-rmspe:0.254017
[124]	train-rmse:0.297465 eval-rmspe:0.251561	eval-rmse:0.297465	train-rmspe:0.251561
[125]	train-rmse:0.293038 eval-rmspe:0.248988	eval-rmse:0.293038	train-rmspe:0.248988
[126]	train-rmse:0.289147 eval-rmspe:0.246796	eval-rmse:0.289147	train-rmspe:0.246796
[127]	train-rmse:0.285293 eval-rmspe:0.244627	eval-rmse:0.285293	train-rmspe:0.244627
[128]	train-rmse:0.281645 eval-rmspe:0.24254	eval-rmse:0.281645	train-rmspe:0.24254
[129]	train-rmse:0.277997 eval-rmspe:0.240408	eval-rmse:0.277997	train-rmspe:0.240408
[130]	train-rmse:0.274777 eval-rmspe:0.238692	eval-rmse:0.274777	train-rmspe:0.238692
[131]	train-rmse:0.271664 eval-rmspe:0.237072	eval-rmse:0.271664	train-rmspe:0.237072
[132]	train-rmse:0.26833 eval-rmspe:0.235218	eval-rmse:0.26833	train-rmspe:0.235218
[133]	train-rmse:0.265505 eval-rmspe:0.233746	eval-rmse:0.265505	train-rmspe:0.233746
[134]	train-rmse:0.26295 eval-rmspe:0.23249	eval-rmse:0.26295	train-rmspe:0.23249
[135]	train-rmse:0.260451 eval-rmspe:0.231288	eval-rmse:0.260451	train-rmspe:0.231288
[136]	train-rmse:0.256808 eval-rmspe:0.229055	eval-rmse:0.256808	train-rmspe:0.229055
[137]	train-rmse:0.254376 eval-rmspe:0.227806	eval-rmse:0.254376	train-rmspe:0.227806
[138]	train-rmse:0.252048 eval-rmspe:0.226627	eval-rmse:0.252048	train-rmspe:0.226627
[139]	train-rmse:0.249828 eval-rmspe:0.225525	eval-rmse:0.249828	train-rmspe:0.225525
[140]	train-rmse:0.247134 eval-rmspe:0.223893	eval-rmse:0.247134	train-rmspe:0.223893
[141]	train-rmse:0.244798 eval-rmspe:0.222599	eval-rmse:0.244798	train-rmspe:0.222599
[142]	train-rmse:0.24302 eval-rmspe:0.221831	eval-rmse:0.24302	train-rmspe:0.221831
[143]	train-rmse:0.241048 eval-rmspe:0.220905	eval-rmse:0.241048	train-rmspe:0.220905
[144]	train-rmse:0.239376 eval-rmspe:0.22018	eval-rmse:0.239376	train-rmspe:0.22018

[145]	train-rmse:0.237328 eval-rmspe:0.219077	eval-rmse:0.237328	train-rmspe:0.219077
[146]	train-rmse:0.235369 eval-rmspe:0.218035	eval-rmse:0.235369	train-rmspe:0.218035
[147]	train-rmse:0.234056 eval-rmspe:0.217616	eval-rmse:0.234056	train-rmspe:0.217616
[148]	train-rmse:0.232616 eval-rmspe:0.217005	eval-rmse:0.232616	train-rmspe:0.217005
[149]	train-rmse:0.231234 eval-rmspe:0.216449	eval-rmse:0.231234	train-rmspe:0.216449
[150]	train-rmse:0.229516 eval-rmspe:0.215574	eval-rmse:0.229516	train-rmspe:0.215574
[151]	train-rmse:0.227983 eval-rmspe:0.214865	eval-rmse:0.227983	train-rmspe:0.214865
[152]	train-rmse:0.22694 eval-rmspe:0.214576	eval-rmse:0.22694	train-rmspe:0.214576
[153]	train-rmse:0.225836 eval-rmspe:0.214207	eval-rmse:0.225836	train-rmspe:0.214207
[154]	train-rmse:0.224398 eval-rmspe:0.213485	eval-rmse:0.224398	train-rmspe:0.213485
[155]	train-rmse:0.223243 eval-rmspe:0.213052	eval-rmse:0.223243	train-rmspe:0.213052
[156]	train-rmse:0.222074 eval-rmspe:0.212581	eval-rmse:0.222074	train-rmspe:0.212581
[157]	train-rmse:0.220729 eval-rmspe:0.211952	eval-rmse:0.220729	train-rmspe:0.211952
[158]	train-rmse:0.219244 eval-rmspe:0.211061	eval-rmse:0.219244	train-rmspe:0.211061
[159]	train-rmse:0.218236 eval-rmspe:0.210692	eval-rmse:0.218236	train-rmspe:0.210692
[160]	train-rmse:0.21689 eval-rmspe:0.209944	eval-rmse:0.21689	train-rmspe:0.209944
[161]	train-rmse:0.215725 eval-rmspe:0.209366	eval-rmse:0.215725	train-rmspe:0.209366
[162]	train-rmse:0.214876 eval-rmspe:0.209071	eval-rmse:0.214876	train-rmspe:0.209071
[163]	train-rmse:0.213816 eval-rmspe:0.208571	eval-rmse:0.213816	train-rmspe:0.208571
[164]	train-rmse:0.212633 eval-rmspe:0.207842	eval-rmse:0.212633	train-rmspe:0.207842
[165]	train-rmse:0.211613 eval-rmspe:0.207338	eval-rmse:0.211613	train-rmspe:0.207338
[166]	train-rmse:0.210952 eval-rmspe:0.207166	eval-rmse:0.210952	train-rmspe:0.207166
[167]	train-rmse:0.210136 eval-rmspe:0.206833	eval-rmse:0.210136	train-rmspe:0.206833
[168]	train-rmse:0.209456 eval-rmspe:0.206591	eval-rmse:0.209456	train-rmspe:0.206591

[169]	train-rmse:0.208574 eval-rmspe:0.206121	eval-rmse:0.208574	train-rmspe:0.206121
[170]	train-rmse:0.208097 eval-rmspe:0.206073	eval-rmse:0.208097	train-rmspe:0.206073
[171]	train-rmse:0.2071 eval-rmspe:0.205504	eval-rmse:0.2071	train-rmspe:0.205504
[172]	train-rmse:0.205105 eval-rmspe:0.203862	eval-rmse:0.205105	train-rmspe:0.203862
[173]	train-rmse:0.204638 eval-rmspe:0.203758	eval-rmse:0.204638	train-rmspe:0.203758
[174]	train-rmse:0.204172 eval-rmspe:0.203614	eval-rmse:0.204172	train-rmspe:0.203614
[175]	train-rmse:0.203595 eval-rmspe:0.203393	eval-rmse:0.203595	train-rmspe:0.203393
[176]	train-rmse:0.202645 eval-rmspe:0.202733	eval-rmse:0.202645	train-rmspe:0.202733
[177]	train-rmse:0.201055 eval-rmspe:0.201426	eval-rmse:0.201055	train-rmspe:0.201426
[178]	train-rmse:0.20045 eval-rmspe:0.201124	eval-rmse:0.20045	train-rmspe:0.201124
[179]	train-rmse:0.200025 eval-rmspe:0.201037	eval-rmse:0.200025	train-rmspe:0.201037
[180]	train-rmse:0.198581 eval-rmspe:0.19987	eval-rmse:0.198581	train-rmspe:0.19987
[181]	train-rmse:0.197401 eval-rmspe:0.198895	eval-rmse:0.197401	train-rmspe:0.198895
[182]	train-rmse:0.196116 eval-rmspe:0.197777	eval-rmse:0.196116	train-rmspe:0.197777
[183]	train-rmse:0.195406 eval-rmspe:0.197347	eval-rmse:0.195406	train-rmspe:0.197347
[184]	train-rmse:0.195022 eval-rmspe:0.197235	eval-rmse:0.195022	train-rmspe:0.197235
[185]	train-rmse:0.194439 eval-rmspe:0.19686	eval-rmse:0.194439	train-rmspe:0.19686
[186]	train-rmse:0.193428 eval-rmspe:0.196027	eval-rmse:0.193428	train-rmspe:0.196027
[187]	train-rmse:0.192453 eval-rmspe:0.195342	eval-rmse:0.192453	train-rmspe:0.195342
[188]	train-rmse:0.192058 eval-rmspe:0.195157	eval-rmse:0.192058	train-rmspe:0.195157
[189]	train-rmse:0.191237 eval-rmspe:0.194558	eval-rmse:0.191237	train-rmspe:0.194558
[190]	train-rmse:0.190811 eval-rmspe:0.194325	eval-rmse:0.190811	train-rmspe:0.194325
[191]	train-rmse:0.190449 eval-rmspe:0.19417	eval-rmse:0.190449	train-rmspe:0.19417
[192]	train-rmse:0.190162 eval-rmspe:0.194083	eval-rmse:0.190162	train-rmspe:0.194083

[193] train-rmse:0.189952 eval-rmspe:0.194076	eval-rmse:0.189952	train-rmspe:0.194076
[194] train-rmse:0.189515 eval-rmspe:0.193834	eval-rmse:0.189515	train-rmspe:0.193834
[195] train-rmse:0.189109 eval-rmspe:0.193593	eval-rmse:0.189109	train-rmspe:0.193593
[196] train-rmse:0.188861 eval-rmspe:0.193516	eval-rmse:0.188861	train-rmspe:0.193516
[197] train-rmse:0.188122 eval-rmspe:0.192952	eval-rmse:0.188122	train-rmspe:0.192952
[198] train-rmse:0.187235 eval-rmspe:0.192177	eval-rmse:0.187235	train-rmspe:0.192177
[199] train-rmse:0.186982 eval-rmspe:0.192098	eval-rmse:0.186982	train-rmspe:0.192098
[200] train-rmse:0.186205 eval-rmspe:0.191486	eval-rmse:0.186205	train-rmspe:0.191486
[201] train-rmse:0.185339 eval-rmspe:0.190683	eval-rmse:0.185339	train-rmspe:0.190683
[202] train-rmse:0.185056 eval-rmspe:0.190553	eval-rmse:0.185056	train-rmspe:0.190553
[203] train-rmse:0.184489 eval-rmspe:0.190151	eval-rmse:0.184489	train-rmspe:0.190151
[204] train-rmse:0.183858 eval-rmspe:0.18961	eval-rmse:0.183858	train-rmspe:0.18961
[205] train-rmse:0.183382 eval-rmspe:0.189282	eval-rmse:0.183382	train-rmspe:0.189282
[206] train-rmse:0.183045 eval-rmspe:0.189054	eval-rmse:0.183045	train-rmspe:0.189054
[207] train-rmse:0.182335 eval-rmspe:0.188422	eval-rmse:0.182335	train-rmspe:0.188422
[208] train-rmse:0.181291 eval-rmspe:0.187448	eval-rmse:0.181291	train-rmspe:0.187448
[209] train-rmse:0.180554 eval-rmspe:0.186779	eval-rmse:0.180554	train-rmspe:0.186779
[210] train-rmse:0.179806 eval-rmspe:0.18611	eval-rmse:0.179806	train-rmspe:0.18611
[211] train-rmse:0.179361 eval-rmspe:0.18573	eval-rmse:0.179361	train-rmspe:0.18573
[212] train-rmse:0.179217 eval-rmspe:0.18569	eval-rmse:0.179217	train-rmspe:0.18569
[213] train-rmse:0.179073 eval-rmspe:0.18565	eval-rmse:0.179073	train-rmspe:0.18565
[214] train-rmse:0.178835 eval-rmspe:0.185517	eval-rmse:0.178835	train-rmspe:0.185517
[215] train-rmse:0.178209 eval-rmspe:0.184972	eval-rmse:0.178209	train-rmspe:0.184972
[216] train-rmse:0.17784 eval-rmspe:0.184704	eval-rmse:0.17784	train-rmspe:0.184704

[217]	train-rmse:0.177569 eval-rmspe:0.184515	eval-rmse:0.177569	train-rmspe:0.184515
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[229]	train-rmse:0.170084 eval-rmspe:0.177322	eval-rmse:0.170084	train-rmspe:0.177322
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[239]	train-rmse:0.163184 eval-rmspe:0.170418	eval-rmse:0.163184	train-rmspe:0.170418
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[245]	train-rmse:0.160755 eval-rmspe:0.167954	eval-rmse:0.160755	train-rmspe:0.167954
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[250]	train-rmse:0.158027 eval-rmspe:0.165254	eval-rmse:0.158027	train-rmspe:0.165254
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[253]	train-rmse:0.15659 eval-rmspe:0.163769	eval-rmse:0.15659	train-rmspe:0.163769
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[262]	train-rmse:0.153306 eval-rmspe:0.160418	eval-rmse:0.153306	train-rmspe:0.160418
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[268]	train-rmse:0.151375	eval-rmse:0.151375	train-rmspe:0.158537
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[269]	train-rmse:0.151226	eval-rmse:0.151226	train-rmspe:0.158404
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[271]	train-rmse:0.150387	eval-rmse:0.150387	train-rmspe:0.157537
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[272]	train-rmse:0.150118	eval-rmse:0.150118	train-rmspe:0.157259
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[273]	train-rmse:0.149889	eval-rmse:0.149889	train-rmspe:0.157026
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[274]	train-rmse:0.149776	eval-rmse:0.149776	train-rmspe:0.156912
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[275]	train-rmse:0.149253	eval-rmse:0.149253	train-rmspe:0.156393
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[276]	train-rmse:0.148507	eval-rmse:0.148507	train-rmspe:0.155583
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[277]	train-rmse:0.148258	eval-rmse:0.148258	train-rmspe:0.155349
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[278]	train-rmse:0.147917	eval-rmse:0.147917	train-rmspe:0.154977
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[279]	train-rmse:0.14762	eval-rmse:0.14762	train-rmspe:0.154679
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[280]	train-rmse:0.147201	eval-rmse:0.147201	train-rmspe:0.154233
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[282]	train-rmse:0.1467	eval-rmse:0.1467	train-rmspe:0.153713
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[283]	train-rmse:0.146013	eval-rmse:0.146013	train-rmspe:0.152959
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[284]	train-rmse:0.145729	eval-rmse:0.145729	train-rmspe:0.152679
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[285]	train-rmse:0.145427	eval-rmse:0.145427	train-rmspe:0.152368
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[286]	train-rmse:0.145042	eval-rmse:0.145042	train-rmspe:0.151984
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[287]	train-rmse:0.144766	eval-rmse:0.144766	train-rmspe:0.151704
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[290]	train-rmse:0.14319 eval-rmspe:0.150055	eval-rmse:0.14319	train-rmspe:0.150055
[291]	train-rmse:0.142595 eval-rmspe:0.149364	eval-rmse:0.142595	train-rmspe:0.149364
[292]	train-rmse:0.142549 eval-rmspe:0.149326	eval-rmse:0.142549	train-rmspe:0.149326
[293]	train-rmse:0.142101 eval-rmspe:0.14883	eval-rmse:0.142101	train-rmspe:0.14883
[294]	train-rmse:0.141258 eval-rmspe:0.147912	eval-rmse:0.141258	train-rmspe:0.147912
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[303]	train-rmse:0.136902 eval-rmspe:0.143307	eval-rmse:0.136902	train-rmspe:0.143307
[304]	train-rmse:0.13658 eval-rmspe:0.142969	eval-rmse:0.13658	train-rmspe:0.142969
[305]	train-rmse:0.136305 eval-rmspe:0.142686	eval-rmse:0.136305	train-rmspe:0.142686
[306]	train-rmse:0.135635 eval-rmspe:0.141995	eval-rmse:0.135635	train-rmspe:0.141995
[307]	train-rmse:0.135337 eval-rmspe:0.141682	eval-rmse:0.135337	train-rmspe:0.141682
[308]	train-rmse:0.134999 eval-rmspe:0.141314	eval-rmse:0.134999	train-rmspe:0.141314
[309]	train-rmse:0.134049 eval-rmspe:0.140329	eval-rmse:0.134049	train-rmspe:0.140329
[310]	train-rmse:0.133783 eval-rmspe:0.13998	eval-rmse:0.133783	train-rmspe:0.13998
[311]	train-rmse:0.13334 eval-rmspe:0.139524	eval-rmse:0.13334	train-rmspe:0.139524
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[313]	train-rmse:0.132761 eval-rmspe:0.138903	eval-rmse:0.132761	train-rmspe:0.138903
[314]	train-rmse:0.132525 eval-rmspe:0.138649	eval-rmse:0.132525	train-rmspe:0.138649
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[550]	train-rmse:0.086797 eval-rmspe:0.089303	eval-rmse:0.086797	train-rmspe:0.089303
[551]	train-rmse:0.08669 eval-rmspe:0.089185	eval-rmse:0.08669	train-rmspe:0.089185
[552]	train-rmse:0.086597 eval-rmspe:0.089091	eval-rmse:0.086597	train-rmspe:0.089091

[553]	train-rmse:0.086455 eval-rmspe:0.088932	eval-rmse:0.086455	train-rmspe:0.088932
[554]	train-rmse:0.086352 eval-rmspe:0.088829	eval-rmse:0.086352	train-rmspe:0.088829
[555]	train-rmse:0.086154 eval-rmspe:0.088585	eval-rmse:0.086154	train-rmspe:0.088585
[556]	train-rmse:0.086091 eval-rmspe:0.088521	eval-rmse:0.086091	train-rmspe:0.088521
[557]	train-rmse:0.085961 eval-rmspe:0.088382	eval-rmse:0.085961	train-rmspe:0.088382
[558]	train-rmse:0.085855 eval-rmspe:0.088273	eval-rmse:0.085855	train-rmspe:0.088273
[559]	train-rmse:0.0857 eval-rmspe:0.088108	eval-rmse:0.0857	train-rmspe:0.088108
[560]	train-rmse:0.08553 eval-rmspe:0.087931	eval-rmse:0.08553	train-rmspe:0.087931
[561]	train-rmse:0.085475 eval-rmspe:0.087875	eval-rmse:0.085475	train-rmspe:0.087875
[562]	train-rmse:0.085296 eval-rmspe:0.087676	eval-rmse:0.085296	train-rmspe:0.087676
[563]	train-rmse:0.085219 eval-rmspe:0.087598	eval-rmse:0.085219	train-rmspe:0.087598
[564]	train-rmse:0.085138 eval-rmspe:0.087511	eval-rmse:0.085138	train-rmspe:0.087511
[565]	train-rmse:0.085046 eval-rmspe:0.087414	eval-rmse:0.085046	train-rmspe:0.087414
[566]	train-rmse:0.084975 eval-rmspe:0.087339	eval-rmse:0.084975	train-rmspe:0.087339
[567]	train-rmse:0.084707 eval-rmspe:0.087028	eval-rmse:0.084707	train-rmspe:0.087028
[568]	train-rmse:0.084543 eval-rmspe:0.086825	eval-rmse:0.084543	train-rmspe:0.086825
[569]	train-rmse:0.084446 eval-rmspe:0.086726	eval-rmse:0.084446	train-rmspe:0.086726
[570]	train-rmse:0.08422 eval-rmspe:0.086487	eval-rmse:0.08422	train-rmspe:0.086487
[571]	train-rmse:0.08411 eval-rmspe:0.086373	eval-rmse:0.08411	train-rmspe:0.086373
[572]	train-rmse:0.08407 eval-rmspe:0.086333	eval-rmse:0.08407	train-rmspe:0.086333
[573]	train-rmse:0.083971 eval-rmspe:0.086233	eval-rmse:0.083971	train-rmspe:0.086233
[574]	train-rmse:0.083894 eval-rmspe:0.086151	eval-rmse:0.083894	train-rmspe:0.086151
[575]	train-rmse:0.083779 eval-rmspe:0.086035	eval-rmse:0.083779	train-rmspe:0.086035
[576]	train-rmse:0.083736 eval-rmspe:0.08599	eval-rmse:0.083736	train-rmspe:0.08599

[577]	train-rmse:0.083655 eval-rmspe:0.085905	eval-rmse:0.083655	train-rmspe:0.085905
[578]	train-rmse:0.083612 eval-rmspe:0.085862	eval-rmse:0.083612	train-rmspe:0.085862
[579]	train-rmse:0.083478 eval-rmspe:0.085729	eval-rmse:0.083478	train-rmspe:0.085729
[580]	train-rmse:0.08342 eval-rmspe:0.085669	eval-rmse:0.08342	train-rmspe:0.085669
[581]	train-rmse:0.083339 eval-rmspe:0.085576	eval-rmse:0.083339	train-rmspe:0.085576
[582]	train-rmse:0.083269 eval-rmspe:0.085505	eval-rmse:0.083269	train-rmspe:0.085505
[583]	train-rmse:0.083199 eval-rmspe:0.08543	eval-rmse:0.083199	train-rmspe:0.08543
[584]	train-rmse:0.083108 eval-rmspe:0.085333	eval-rmse:0.083108	train-rmspe:0.085333
[585]	train-rmse:0.083027 eval-rmspe:0.085247	eval-rmse:0.083027	train-rmspe:0.085247
[586]	train-rmse:0.082986 eval-rmspe:0.085204	eval-rmse:0.082986	train-rmspe:0.085204
[587]	train-rmse:0.082878 eval-rmspe:0.085092	eval-rmse:0.082878	train-rmspe:0.085092
[588]	train-rmse:0.08274 eval-rmspe:0.084948	eval-rmse:0.08274	train-rmspe:0.084948
[589]	train-rmse:0.082634 eval-rmspe:0.084834	eval-rmse:0.082634	train-rmspe:0.084834
[590]	train-rmse:0.082522 eval-rmspe:0.084713	eval-rmse:0.082522	train-rmspe:0.084713
[591]	train-rmse:0.082432 eval-rmspe:0.084622	eval-rmse:0.082432	train-rmspe:0.084622
[592]	train-rmse:0.082344 eval-rmspe:0.084534	eval-rmse:0.082344	train-rmspe:0.084534
[593]	train-rmse:0.082245 eval-rmspe:0.084431	eval-rmse:0.082245	train-rmspe:0.084431
[594]	train-rmse:0.082137 eval-rmspe:0.084315	eval-rmse:0.082137	train-rmspe:0.084315
[595]	train-rmse:0.082034 eval-rmspe:0.084207	eval-rmse:0.082034	train-rmspe:0.084207
[596]	train-rmse:0.081843 eval-rmspe:0.083999	eval-rmse:0.081843	train-rmspe:0.083999
[597]	train-rmse:0.081741 eval-rmspe:0.083885	eval-rmse:0.081741	train-rmspe:0.083885
[598]	train-rmse:0.08168 eval-rmspe:0.083821	eval-rmse:0.08168	train-rmspe:0.083821
[599]	train-rmse:0.081617 eval-rmspe:0.083755	eval-rmse:0.081617	train-rmspe:0.083755
	round 9 end		
	round 10:		

[0] train-rmse:8.02732 eval-rmse:8.02732 train-rmspe:0.999811
eval-rmspe:0.999811

Multiple eval metrics have been passed: 'eval-rmspe' will be used for early
stopping.

Will train until eval-rmspe hasn't improved in 100 rounds.

[1] train-rmse:7.787 eval-rmse:7.787 train-rmspe:0.999713 eval-
rmspe:0.999713

[2] train-rmse:7.55392 eval-rmse:7.55392 train-rmspe:0.999594
eval-rmspe:0.999594

[3] train-rmse:7.32785 eval-rmse:7.32785 train-rmspe:0.999448
eval-rmspe:0.999448

[4] train-rmse:7.10856 eval-rmse:7.10856 train-rmspe:0.999272
eval-rmspe:0.999272

[5] train-rmse:6.89589 eval-rmse:6.89589 train-rmspe:0.999059
eval-rmspe:0.999059

[6] train-rmse:6.6896 eval-rmse:6.6896 train-rmspe:0.998806
eval-rmspe:0.998806

[7] train-rmse:6.48952 eval-rmse:6.48952 train-rmspe:0.998504
eval-rmspe:0.998504

[8] train-rmse:6.29544 eval-rmse:6.29544 train-rmspe:0.998149
eval-rmspe:0.998149

[9] train-rmse:6.10723 eval-rmse:6.10723 train-rmspe:0.997733
eval-rmspe:0.997733

[10] train-rmse:5.92466 eval-rmse:5.92466 train-rmspe:0.997246
eval-rmspe:0.997246

[11] train-rmse:5.74763 eval-rmse:5.74763 train-rmspe:0.996682
eval-rmspe:0.996682

[12] train-rmse:5.5759 eval-rmse:5.5759 train-rmspe:0.99603
eval-rmspe:0.99603

[13] train-rmse:5.40935 eval-rmse:5.40935 train-rmspe:0.995282
eval-rmspe:0.995282

[14] train-rmse:5.24782 eval-rmse:5.24782 train-rmspe:0.994428
eval-rmspe:0.994428

[15] train-rmse:5.09116 eval-rmse:5.09116 train-rmspe:0.993456
eval-rmspe:0.993456

[16] train-rmse:4.93923 eval-rmse:4.93923 train-rmspe:0.992357
eval-rmspe:0.992357

[17] train-rmse:4.79185 eval-rmse:4.79185 train-rmspe:0.99112
eval-rmspe:0.99112

[18] train-rmse:4.64887 eval-rmse:4.64887 train-rmspe:0.989733
eval-rmspe:0.989733

[19] train-rmse:4.51027 eval-rmse:4.51027 train-rmspe:0.988186
eval-rmspe:0.988186

[20] train-rmse:4.37584 eval-rmse:4.37584 train-rmspe:0.986468
eval-rmspe:0.986468

[21] train-rmse:4.24543 eval-rmse:4.24543 train-rmspe:0.984568
eval-rmspe:0.984568

[22]	train-rmse:4.11897 eval-rmspe:0.982472	eval-rmse:4.11897	train-rmspe:0.982472
[23]	train-rmse:3.99634 eval-rmspe:0.98017	eval-rmse:3.99634	train-rmspe:0.98017
[24]	train-rmse:3.87741 eval-rmspe:0.977651	eval-rmse:3.87741	train-rmspe:0.977651
[25]	train-rmse:3.76213 eval-rmspe:0.974904	eval-rmse:3.76213	train-rmspe:0.974904
[26]	train-rmse:3.65023 eval-rmspe:0.971925	eval-rmse:3.65023	train-rmspe:0.971925
[27]	train-rmse:3.54173 eval-rmspe:0.9687	eval-rmse:3.54173	train-rmspe:0.9687
[28]	train-rmse:3.43652 eval-rmspe:0.965217	eval-rmse:3.43652	train-rmspe:0.965217
[29]	train-rmse:3.33448 eval-rmspe:0.961479	eval-rmse:3.33448	train-rmspe:0.961479
[30]	train-rmse:3.23555 eval-rmspe:0.957474	eval-rmse:3.23555	train-rmspe:0.957474
[31]	train-rmse:3.13963 eval-rmspe:0.953188	eval-rmse:3.13963	train-rmspe:0.953188
[32]	train-rmse:3.04655 eval-rmspe:0.948627	eval-rmse:3.04655	train-rmspe:0.948627
[33]	train-rmse:2.95634 eval-rmspe:0.943775	eval-rmse:2.95634	train-rmspe:0.943775
[34]	train-rmse:2.86882 eval-rmspe:0.938647	eval-rmse:2.86882	train-rmspe:0.938647
[35]	train-rmse:2.78398 eval-rmspe:0.933237	eval-rmse:2.78398	train-rmspe:0.933237
[36]	train-rmse:2.70169 eval-rmspe:0.927552	eval-rmse:2.70169	train-rmspe:0.927552
[37]	train-rmse:2.62196 eval-rmspe:0.921548	eval-rmse:2.62196	train-rmspe:0.921548
[38]	train-rmse:2.54464 eval-rmspe:0.91526	eval-rmse:2.54464	train-rmspe:0.91526
[39]	train-rmse:2.46959 eval-rmspe:0.908711	eval-rmse:2.46959	train-rmspe:0.908711
[40]	train-rmse:2.39682 eval-rmspe:0.901879	eval-rmse:2.39682	train-rmspe:0.901879
[41]	train-rmse:2.32628 eval-rmspe:0.894752	eval-rmse:2.32628	train-rmspe:0.894752
[42]	train-rmse:2.25796 eval-rmspe:0.887318	eval-rmse:2.25796	train-rmspe:0.887318
[43]	train-rmse:2.19157 eval-rmspe:0.879687	eval-rmse:2.19157	train-rmspe:0.879687
[44]	train-rmse:2.12726 eval-rmspe:0.871757	eval-rmse:2.12726	train-rmspe:0.871757
[45]	train-rmse:2.06495 eval-rmspe:0.863557	eval-rmse:2.06495	train-rmspe:0.863557

[46]	train-rmse:2.00449	eval-rmse:2.00449	train-rmspe:0.855147
	eval-rmspe:0.855147		
[47]	train-rmse:1.94579	eval-rmse:1.94579	train-rmspe:0.846541
	eval-rmspe:0.846541		
[48]	train-rmse:1.88896	eval-rmse:1.88896	train-rmspe:0.837679
	eval-rmspe:0.837679		
[49]	train-rmse:1.83395	eval-rmse:1.83395	train-rmspe:0.828542
	eval-rmspe:0.828542		
[50]	train-rmse:1.78058	eval-rmse:1.78058	train-rmspe:0.81924
	eval-rmspe:0.81924		
[51]	train-rmse:1.72885	eval-rmse:1.72885	train-rmspe:0.809723
	eval-rmspe:0.809723		
[52]	train-rmse:1.6786	eval-rmse:1.6786	train-rmspe:0.800068
	eval-rmspe:0.800068		
[53]	train-rmse:1.62985	eval-rmse:1.62985	train-rmspe:0.790273
	eval-rmspe:0.790273		
[54]	train-rmse:1.58257	eval-rmse:1.58257	train-rmspe:0.78032
	eval-rmspe:0.78032		
[55]	train-rmse:1.53687	eval-rmse:1.53687	train-rmspe:0.770178
	eval-rmspe:0.770178		
[56]	train-rmse:1.49251	eval-rmse:1.49251	train-rmspe:0.759939
	eval-rmspe:0.759939		
[57]	train-rmse:1.44964	eval-rmse:1.44964	train-rmspe:0.749516
	eval-rmspe:0.749516		
[58]	train-rmse:1.40788	eval-rmse:1.40788	train-rmspe:0.739119
	eval-rmspe:0.739119		
[59]	train-rmse:1.36751	eval-rmse:1.36751	train-rmspe:0.728544
	eval-rmspe:0.728544		
[60]	train-rmse:1.32812	eval-rmse:1.32812	train-rmspe:0.717977
	eval-rmspe:0.717977		
[61]	train-rmse:1.29014	eval-rmse:1.29014	train-rmspe:0.707284
	eval-rmspe:0.707284		
[62]	train-rmse:1.25335	eval-rmse:1.25335	train-rmspe:0.696553
	eval-rmspe:0.696553		
[63]	train-rmse:1.21762	eval-rmse:1.21762	train-rmspe:0.685804
	eval-rmspe:0.685804		
[64]	train-rmse:1.18307	eval-rmse:1.18307	train-rmspe:0.674987
	eval-rmspe:0.674987		
[65]	train-rmse:1.14968	eval-rmse:1.14968	train-rmspe:0.66414
	eval-rmspe:0.66414		
[66]	train-rmse:1.11732	eval-rmse:1.11732	train-rmspe:0.653321
	eval-rmspe:0.653321		
[67]	train-rmse:1.08589	eval-rmse:1.08589	train-rmspe:0.642489
	eval-rmspe:0.642489		
[68]	train-rmse:1.05554	eval-rmse:1.05554	train-rmspe:0.631687
	eval-rmspe:0.631687		
[69]	train-rmse:1.02603	eval-rmse:1.02603	train-rmspe:0.620969
	eval-rmspe:0.620969		

[70]	train-rmse:0.99761 eval-rmspe:0.610242	eval-rmse:0.99761	train-rmspe:0.610242
[71]	train-rmse:0.969912 eval-rmspe:0.599599	eval-rmse:0.969912	train-rmspe:0.599599
[72]	train-rmse:0.943288 eval-rmspe:0.589005	eval-rmse:0.943288	train-rmspe:0.589005
[73]	train-rmse:0.917118 eval-rmspe:0.578551	eval-rmse:0.917118	train-rmspe:0.578551
[74]	train-rmse:0.892063 eval-rmspe:0.568135	eval-rmse:0.892063	train-rmspe:0.568135
[75]	train-rmse:0.867758 eval-rmspe:0.557831	eval-rmse:0.867758	train-rmspe:0.557831
[76]	train-rmse:0.844294 eval-rmspe:0.547611	eval-rmse:0.844294	train-rmspe:0.547611
[77]	train-rmse:0.821557 eval-rmspe:0.537538	eval-rmse:0.821557	train-rmspe:0.537538
[78]	train-rmse:0.799327 eval-rmspe:0.527581	eval-rmse:0.799327	train-rmspe:0.527581
[79]	train-rmse:0.777911 eval-rmspe:0.517749	eval-rmse:0.777911	train-rmspe:0.517749
[80]	train-rmse:0.757397 eval-rmspe:0.508045	eval-rmse:0.757397	train-rmspe:0.508045
[81]	train-rmse:0.737424 eval-rmspe:0.49851	eval-rmse:0.737424	train-rmspe:0.49851
[82]	train-rmse:0.71808 eval-rmspe:0.489112	eval-rmse:0.71808	train-rmspe:0.489112
[83]	train-rmse:0.699196 eval-rmspe:0.479822	eval-rmse:0.699196	train-rmspe:0.479822
[84]	train-rmse:0.681064 eval-rmspe:0.470728	eval-rmse:0.681064	train-rmspe:0.470728
[85]	train-rmse:0.663282 eval-rmspe:0.461743	eval-rmse:0.663282	train-rmspe:0.461743
[86]	train-rmse:0.646154 eval-rmspe:0.452945	eval-rmse:0.646154	train-rmspe:0.452945
[87]	train-rmse:0.629961 eval-rmspe:0.44437	eval-rmse:0.629961	train-rmspe:0.44437
[88]	train-rmse:0.614275 eval-rmspe:0.435969	eval-rmse:0.614275	train-rmspe:0.435969
[89]	train-rmse:0.598972 eval-rmspe:0.427726	eval-rmse:0.598972	train-rmspe:0.427726
[90]	train-rmse:0.583914 eval-rmspe:0.4196	eval-rmse:0.583914	train-rmspe:0.4196
[91]	train-rmse:0.569575 eval-rmspe:0.411718	eval-rmse:0.569575	train-rmspe:0.411718
[92]	train-rmse:0.555846 eval-rmspe:0.404078	eval-rmse:0.555846	train-rmspe:0.404078
[93]	train-rmse:0.542631 eval-rmspe:0.396616	eval-rmse:0.542631	train-rmspe:0.396616

[94]	train-rmse:0.529784 eval-rmspe:0.3893	eval-rmse:0.529784	train-rmspe:0.3893
[95]	train-rmse:0.517288 eval-rmspe:0.382176	eval-rmse:0.517288	train-rmspe:0.382176
[96]	train-rmse:0.505302 eval-rmspe:0.375272	eval-rmse:0.505302	train-rmspe:0.375272
[97]	train-rmse:0.493522 eval-rmspe:0.368493	eval-rmse:0.493522	train-rmspe:0.368493
[98]	train-rmse:0.482315 eval-rmspe:0.361913	eval-rmse:0.482315	train-rmspe:0.361913
[99]	train-rmse:0.471571 eval-rmspe:0.355553	eval-rmse:0.471571	train-rmspe:0.355553
[100]	train-rmse:0.46122 eval-rmspe:0.34943	eval-rmse:0.46122	train-rmspe:0.34943
[101]	train-rmse:0.451185 eval-rmspe:0.343455	eval-rmse:0.451185	train-rmspe:0.343455
[102]	train-rmse:0.441176 eval-rmspe:0.337506	eval-rmse:0.441176	train-rmspe:0.337506
[103]	train-rmse:0.431634 eval-rmspe:0.331769	eval-rmse:0.431634	train-rmspe:0.331769
[104]	train-rmse:0.422471 eval-rmspe:0.326284	eval-rmse:0.422471	train-rmspe:0.326284
[105]	train-rmse:0.413609 eval-rmspe:0.320993	eval-rmse:0.413609	train-rmspe:0.320993
[106]	train-rmse:0.404663 eval-rmspe:0.315612	eval-rmse:0.404663	train-rmspe:0.315612
[107]	train-rmse:0.396578 eval-rmspe:0.310712	eval-rmse:0.396578	train-rmspe:0.310712
[108]	train-rmse:0.388501 eval-rmspe:0.305842	eval-rmse:0.388501	train-rmspe:0.305842
[109]	train-rmse:0.381072 eval-rmspe:0.301332	eval-rmse:0.381072	train-rmspe:0.301332
[110]	train-rmse:0.373757 eval-rmspe:0.296907	eval-rmse:0.373757	train-rmspe:0.296907
[111]	train-rmse:0.366698 eval-rmspe:0.292618	eval-rmse:0.366698	train-rmspe:0.292618
[112]	train-rmse:0.359914 eval-rmspe:0.288539	eval-rmse:0.359914	train-rmspe:0.288539
[113]	train-rmse:0.353416 eval-rmspe:0.284613	eval-rmse:0.353416	train-rmspe:0.284613
[114]	train-rmse:0.347371 eval-rmspe:0.280973	eval-rmse:0.347371	train-rmspe:0.280973
[115]	train-rmse:0.341227 eval-rmspe:0.277284	eval-rmse:0.341227	train-rmspe:0.277284
[116]	train-rmse:0.335544 eval-rmspe:0.273901	eval-rmse:0.335544	train-rmspe:0.273901
[117]	train-rmse:0.329956 eval-rmspe:0.270564	eval-rmse:0.329956	train-rmspe:0.270564

[118]	train-rmse:0.324704 eval-rmspe:0.267432	eval-rmse:0.324704	train-rmspe:0.267432
[119]	train-rmse:0.319456 eval-rmspe:0.264262	eval-rmse:0.319456	train-rmspe:0.264262
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[122]	train-rmse:0.304751 eval-rmspe:0.255462	eval-rmse:0.304751	train-rmspe:0.255462
[123]	train-rmse:0.300545 eval-rmspe:0.253035	eval-rmse:0.300545	train-rmspe:0.253035
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[125]	train-rmse:0.292145 eval-rmspe:0.248116	eval-rmse:0.292145	train-rmspe:0.248116
[126]	train-rmse:0.287985 eval-rmspe:0.245634	eval-rmse:0.287985	train-rmspe:0.245634
[127]	train-rmse:0.284474 eval-rmspe:0.243696	eval-rmse:0.284474	train-rmspe:0.243696
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[134]	train-rmse:0.261794 eval-rmspe:0.231257	eval-rmse:0.261794	train-rmspe:0.231257
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[145]	train-rmse:0.236736	eval-rmse:0.236736	train-rmspe:0.218328
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[146]	train-rmse:0.234373	eval-rmse:0.234373	train-rmspe:0.216911
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[147]	train-rmse:0.232557	eval-rmse:0.232557	train-rmspe:0.216042
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[148]	train-rmse:0.23062	eval-rmse:0.23062	train-rmspe:0.214981
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[149]	train-rmse:0.228716	eval-rmse:0.228716	train-rmspe:0.213947
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[150]	train-rmse:0.227403	eval-rmse:0.227403	train-rmspe:0.213423
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[151]	train-rmse:0.225961	eval-rmse:0.225961	train-rmspe:0.212728
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[153]	train-rmse:0.223011	eval-rmse:0.223011	train-rmspe:0.211255
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[154]	train-rmse:0.221358	eval-rmse:0.221358	train-rmspe:0.21028
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[155]	train-rmse:0.219857	eval-rmse:0.219857	train-rmspe:0.209455
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[156]	train-rmse:0.218926	eval-rmse:0.218926	train-rmspe:0.209195
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[157]	train-rmse:0.217559	eval-rmse:0.217559	train-rmspe:0.20847
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[158]	train-rmse:0.216155	eval-rmse:0.216155	train-rmspe:0.207767
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[159]	train-rmse:0.213995	eval-rmse:0.213995	train-rmspe:0.206271
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[160]	train-rmse:0.213143	eval-rmse:0.213143	train-rmspe:0.206013
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[162]	train-rmse:0.21098	eval-rmse:0.21098	train-rmspe:0.204904
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[163]	train-rmse:0.209552	eval-rmse:0.209552	train-rmspe:0.203993
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[164]	train-rmse:0.208403	eval-rmse:0.208403	train-rmspe:0.203403
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[165]	train-rmse:0.207477	eval-rmse:0.207477	train-rmspe:0.202981
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[166]	train-rmse:0.206456 eval-rmspe:0.202433	eval-rmse:0.206456	train-rmspe:0.202433
[167]	train-rmse:0.205706 eval-rmspe:0.202169	eval-rmse:0.205706	train-rmspe:0.202169
[168]	train-rmse:0.204967 eval-rmspe:0.201825	eval-rmse:0.204967	train-rmspe:0.201825
[169]	train-rmse:0.204059 eval-rmspe:0.201346	eval-rmse:0.204059	train-rmspe:0.201346
[170]	train-rmse:0.203406 eval-rmspe:0.201108	eval-rmse:0.203406	train-rmspe:0.201108
[171]	train-rmse:0.20215 eval-rmspe:0.200132	eval-rmse:0.20215	train-rmspe:0.200132
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[174]	train-rmse:0.199005 eval-rmspe:0.198201	eval-rmse:0.199005	train-rmspe:0.198201
[175]	train-rmse:0.198146 eval-rmspe:0.197729	eval-rmse:0.198146	train-rmspe:0.197729
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[177]	train-rmse:0.196939 eval-rmspe:0.197181	eval-rmse:0.196939	train-rmspe:0.197181
[178]	train-rmse:0.19617 eval-rmspe:0.196749	eval-rmse:0.19617	train-rmspe:0.196749
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[182]	train-rmse:0.193149 eval-rmspe:0.194958	eval-rmse:0.193149	train-rmspe:0.194958
[183]	train-rmse:0.192687 eval-rmspe:0.194759	eval-rmse:0.192687	train-rmspe:0.194759
[184]	train-rmse:0.192212 eval-rmspe:0.194543	eval-rmse:0.192212	train-rmspe:0.194543
[185]	train-rmse:0.191448 eval-rmspe:0.193998	eval-rmse:0.191448	train-rmspe:0.193998
[186]	train-rmse:0.19067 eval-rmspe:0.193455	eval-rmse:0.19067	train-rmspe:0.193455
[187]	train-rmse:0.190084 eval-rmspe:0.193053	eval-rmse:0.190084	train-rmspe:0.193053
[188]	train-rmse:0.188668 eval-rmspe:0.191818	eval-rmse:0.188668	train-rmspe:0.191818
[189]	train-rmse:0.188263 eval-rmspe:0.191645	eval-rmse:0.188263	train-rmspe:0.191645

[190]	train-rmse:0.18785 eval-rmspe:0.191422	eval-rmse:0.18785	train-rmspe:0.191422
[191]	train-rmse:0.186194 eval-rmspe:0.189853	eval-rmse:0.186194	train-rmspe:0.189853
[192]	train-rmse:0.18569 eval-rmspe:0.189507	eval-rmse:0.18569	train-rmspe:0.189507
[193]	train-rmse:0.184627 eval-rmspe:0.188628	eval-rmse:0.184627	train-rmspe:0.188628
[194]	train-rmse:0.18397 eval-rmspe:0.188104	eval-rmse:0.18397	train-rmspe:0.188104
[195]	train-rmse:0.183509 eval-rmspe:0.187798	eval-rmse:0.183509	train-rmspe:0.187798
[196]	train-rmse:0.18265 eval-rmspe:0.187112	eval-rmse:0.18265	train-rmspe:0.187112
[197]	train-rmse:0.182106 eval-rmspe:0.186762	eval-rmse:0.182106	train-rmspe:0.186762
[198]	train-rmse:0.180789 eval-rmspe:0.185454	eval-rmse:0.180789	train-rmspe:0.185454
[199]	train-rmse:0.180567 eval-rmspe:0.185398	eval-rmse:0.180567	train-rmspe:0.185398
[200]	train-rmse:0.180131 eval-rmspe:0.18513	eval-rmse:0.180131	train-rmspe:0.18513
[201]	train-rmse:0.179371 eval-rmspe:0.184478	eval-rmse:0.179371	train-rmspe:0.184478
[202]	train-rmse:0.17905 eval-rmspe:0.184275	eval-rmse:0.17905	train-rmspe:0.184275
[203]	train-rmse:0.178616 eval-rmspe:0.183975	eval-rmse:0.178616	train-rmspe:0.183975
[204]	train-rmse:0.178341 eval-rmspe:0.183815	eval-rmse:0.178341	train-rmspe:0.183815
[205]	train-rmse:0.177854 eval-rmspe:0.18339	eval-rmse:0.177854	train-rmspe:0.18339
[206]	train-rmse:0.176982 eval-rmspe:0.182653	eval-rmse:0.176982	train-rmspe:0.182653
[207]	train-rmse:0.175605 eval-rmspe:0.181289	eval-rmse:0.175605	train-rmspe:0.181289
[208]	train-rmse:0.17503 eval-rmspe:0.180804	eval-rmse:0.17503	train-rmspe:0.180804
[209]	train-rmse:0.174477 eval-rmspe:0.180327	eval-rmse:0.174477	train-rmspe:0.180327
[210]	train-rmse:0.174131 eval-rmspe:0.180071	eval-rmse:0.174131	train-rmspe:0.180071
[211]	train-rmse:0.173736 eval-rmspe:0.179775	eval-rmse:0.173736	train-rmspe:0.179775
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[213]	train-rmse:0.172012 eval-rmspe:0.178178	eval-rmse:0.172012	train-rmspe:0.178178

[214]	train-rmse:0.171429 eval-rmspe:0.177687	eval-rmse:0.171429	train-rmspe:0.177687
[215]	train-rmse:0.170995 eval-rmspe:0.177327	eval-rmse:0.170995	train-rmspe:0.177327
[216]	train-rmse:0.170573 eval-rmspe:0.176964	eval-rmse:0.170573	train-rmspe:0.176964
[217]	train-rmse:0.170108 eval-rmspe:0.17659	eval-rmse:0.170108	train-rmspe:0.17659
[218]	train-rmse:0.169776 eval-rmspe:0.176296	eval-rmse:0.169776	train-rmspe:0.176296
[219]	train-rmse:0.168797 eval-rmspe:0.175405	eval-rmse:0.168797	train-rmspe:0.175405
[220]	train-rmse:0.168173 eval-rmspe:0.17487	eval-rmse:0.168173	train-rmspe:0.17487
[221]	train-rmse:0.167696 eval-rmspe:0.174463	eval-rmse:0.167696	train-rmspe:0.174463
[222]	train-rmse:0.167214 eval-rmspe:0.173981	eval-rmse:0.167214	train-rmspe:0.173981
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[249]	train-rmse:0.153798 eval-rmspe:0.160871	eval-rmse:0.153798	train-rmspe:0.160871
[250]	train-rmse:0.153293 eval-rmspe:0.160347	eval-rmse:0.153293	train-rmspe:0.160347
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[254]	train-rmse:0.151844 eval-rmspe:0.158944	eval-rmse:0.151844	train-rmspe:0.158944
[255]	train-rmse:0.151247 eval-rmspe:0.158355	eval-rmse:0.151247	train-rmspe:0.158355
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[259]	train-rmse:0.149887 eval-rmspe:0.156974	eval-rmse:0.149887	train-rmspe:0.156974
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[318]	train-rmse:0.128659 eval-rmspe:0.134802	eval-rmse:0.128659	train-rmspe:0.134802
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[447]	train-rmse:0.098058 eval-rmspe:0.101977	eval-rmse:0.098058	train-rmspe:0.101977
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[449]	train-rmse:0.097733 eval-rmspe:0.101623	eval-rmse:0.097733	train-rmspe:0.101623
[450]	train-rmse:0.097538 eval-rmspe:0.101414	eval-rmse:0.097538	train-rmspe:0.101414
[451]	train-rmse:0.097341 eval-rmspe:0.101201	eval-rmse:0.097341	train-rmspe:0.101201
[452]	train-rmse:0.097195 eval-rmspe:0.101043	eval-rmse:0.097195	train-rmspe:0.101043
[453]	train-rmse:0.097104 eval-rmspe:0.100942	eval-rmse:0.097104	train-rmspe:0.100942

[454]	train-rmse:0.096939 eval-rmspe:0.100774	eval-rmse:0.096939	train-rmspe:0.100774
[455]	train-rmse:0.09666 eval-rmspe:0.100429	eval-rmse:0.09666	train-rmspe:0.100429
[456]	train-rmse:0.096604 eval-rmspe:0.100365	eval-rmse:0.096604	train-rmspe:0.100365
[457]	train-rmse:0.096429 eval-rmspe:0.10017	eval-rmse:0.096429	train-rmspe:0.10017
[458]	train-rmse:0.096374 eval-rmspe:0.100116	eval-rmse:0.096374	train-rmspe:0.100116
[459]	train-rmse:0.096249 eval-rmspe:0.099989	eval-rmse:0.096249	train-rmspe:0.099989
[460]	train-rmse:0.096118 eval-rmspe:0.099839	eval-rmse:0.096118	train-rmspe:0.099839
[461]	train-rmse:0.09592 eval-rmspe:0.099625	eval-rmse:0.09592	train-rmspe:0.099625
[462]	train-rmse:0.095825 eval-rmspe:0.099527	eval-rmse:0.095825	train-rmspe:0.099527
[463]	train-rmse:0.095619 eval-rmspe:0.099307	eval-rmse:0.095619	train-rmspe:0.099307
[464]	train-rmse:0.095479 eval-rmspe:0.099157	eval-rmse:0.095479	train-rmspe:0.099157
[465]	train-rmse:0.095227 eval-rmspe:0.098877	eval-rmse:0.095227	train-rmspe:0.098877
[466]	train-rmse:0.095076 eval-rmspe:0.098725	eval-rmse:0.095076	train-rmspe:0.098725
[467]	train-rmse:0.094903 eval-rmspe:0.09854	eval-rmse:0.094903	train-rmspe:0.09854
[468]	train-rmse:0.094685 eval-rmspe:0.09832	eval-rmse:0.094685	train-rmspe:0.09832
[469]	train-rmse:0.094576 eval-rmspe:0.098209	eval-rmse:0.094576	train-rmspe:0.098209
[470]	train-rmse:0.094401 eval-rmspe:0.098025	eval-rmse:0.094401	train-rmspe:0.098025
[471]	train-rmse:0.094254 eval-rmspe:0.097867	eval-rmse:0.094254	train-rmspe:0.097867
[472]	train-rmse:0.094185 eval-rmspe:0.097793	eval-rmse:0.094185	train-rmspe:0.097793
[473]	train-rmse:0.093964 eval-rmspe:0.097557	eval-rmse:0.093964	train-rmspe:0.097557
[474]	train-rmse:0.093747 eval-rmspe:0.097307	eval-rmse:0.093747	train-rmspe:0.097307
[475]	train-rmse:0.093595 eval-rmspe:0.097152	eval-rmse:0.093595	train-rmspe:0.097152
[476]	train-rmse:0.093383 eval-rmspe:0.096929	eval-rmse:0.093383	train-rmspe:0.096929
[477]	train-rmse:0.093332 eval-rmspe:0.096878	eval-rmse:0.093332	train-rmspe:0.096878

[478]	train-rmse:0.093157 eval-rmspe:0.096694	eval-rmse:0.093157	train-rmspe:0.096694
[479]	train-rmse:0.092916 eval-rmspe:0.096422	eval-rmse:0.092916	train-rmspe:0.096422
[480]	train-rmse:0.092817 eval-rmspe:0.096318	eval-rmse:0.092817	train-rmspe:0.096318
[481]	train-rmse:0.092694 eval-rmspe:0.096192	eval-rmse:0.092694	train-rmspe:0.096192
[482]	train-rmse:0.092637 eval-rmspe:0.096131	eval-rmse:0.092637	train-rmspe:0.096131
[483]	train-rmse:0.092453 eval-rmspe:0.095929	eval-rmse:0.092453	train-rmspe:0.095929
[484]	train-rmse:0.092338 eval-rmspe:0.095809	eval-rmse:0.092338	train-rmspe:0.095809
[485]	train-rmse:0.092201 eval-rmspe:0.095657	eval-rmse:0.092201	train-rmspe:0.095657
[486]	train-rmse:0.09208 eval-rmspe:0.095524	eval-rmse:0.09208	train-rmspe:0.095524
[487]	train-rmse:0.09187 eval-rmspe:0.095297	eval-rmse:0.09187	train-rmspe:0.095297
[488]	train-rmse:0.091713 eval-rmspe:0.09513	eval-rmse:0.091713	train-rmspe:0.09513
[489]	train-rmse:0.091521 eval-rmspe:0.094873	eval-rmse:0.091521	train-rmspe:0.094873
[490]	train-rmse:0.091464 eval-rmspe:0.094813	eval-rmse:0.091464	train-rmspe:0.094813
[491]	train-rmse:0.091381 eval-rmspe:0.094718	eval-rmse:0.091381	train-rmspe:0.094718
[492]	train-rmse:0.091162 eval-rmspe:0.094442	eval-rmse:0.091162	train-rmspe:0.094442
[493]	train-rmse:0.091006 eval-rmspe:0.094274	eval-rmse:0.091006	train-rmspe:0.094274
[494]	train-rmse:0.090969 eval-rmspe:0.094237	eval-rmse:0.090969	train-rmspe:0.094237
[495]	train-rmse:0.090919 eval-rmspe:0.094185	eval-rmse:0.090919	train-rmspe:0.094185
[496]	train-rmse:0.090721 eval-rmspe:0.093978	eval-rmse:0.090721	train-rmspe:0.093978
[497]	train-rmse:0.090601 eval-rmspe:0.093851	eval-rmse:0.090601	train-rmspe:0.093851
[498]	train-rmse:0.090453 eval-rmspe:0.093647	eval-rmse:0.090453	train-rmspe:0.093647
[499]	train-rmse:0.0904 eval-rmspe:0.093591	eval-rmse:0.0904	train-rmspe:0.093591
[500]	train-rmse:0.090322 eval-rmspe:0.093511	eval-rmse:0.090322	train-rmspe:0.093511
[501]	train-rmse:0.090142 eval-rmspe:0.093323	eval-rmse:0.090142	train-rmspe:0.093323

[502]	train-rmse:0.089909 eval-rmspe:0.093081	eval-rmse:0.089909	train-rmspe:0.093081
[503]	train-rmse:0.089691 eval-rmspe:0.092833	eval-rmse:0.089691	train-rmspe:0.092833
[504]	train-rmse:0.089497 eval-rmspe:0.092629	eval-rmse:0.089497	train-rmspe:0.092629
[505]	train-rmse:0.089367 eval-rmspe:0.092462	eval-rmse:0.089367	train-rmspe:0.092462
[506]	train-rmse:0.08933 eval-rmspe:0.092424	eval-rmse:0.08933	train-rmspe:0.092424
[507]	train-rmse:0.089304 eval-rmspe:0.092397	eval-rmse:0.089304	train-rmspe:0.092397
[508]	train-rmse:0.089232 eval-rmspe:0.092323	eval-rmse:0.089232	train-rmspe:0.092323
[509]	train-rmse:0.089098 eval-rmspe:0.092185	eval-rmse:0.089098	train-rmspe:0.092185
[510]	train-rmse:0.088954 eval-rmspe:0.092035	eval-rmse:0.088954	train-rmspe:0.092035
[511]	train-rmse:0.088814 eval-rmspe:0.091888	eval-rmse:0.088814	train-rmspe:0.091888
[512]	train-rmse:0.08865 eval-rmspe:0.0917	eval-rmse:0.08865	train-rmspe:0.0917
[513]	train-rmse:0.088521 eval-rmspe:0.091567	eval-rmse:0.088521	train-rmspe:0.091567
[514]	train-rmse:0.088352 eval-rmspe:0.091396	eval-rmse:0.088352	train-rmspe:0.091396
[515]	train-rmse:0.088187 eval-rmspe:0.091222	eval-rmse:0.088187	train-rmspe:0.091222
[516]	train-rmse:0.088016 eval-rmspe:0.091029	eval-rmse:0.088016	train-rmspe:0.091029
[517]	train-rmse:0.087961 eval-rmspe:0.090971	eval-rmse:0.087961	train-rmspe:0.090971
[518]	train-rmse:0.087799 eval-rmspe:0.090795	eval-rmse:0.087799	train-rmspe:0.090795
[519]	train-rmse:0.087767 eval-rmspe:0.090764	eval-rmse:0.087767	train-rmspe:0.090764
[520]	train-rmse:0.087604 eval-rmspe:0.090566	eval-rmse:0.087604	train-rmspe:0.090566
[521]	train-rmse:0.087539 eval-rmspe:0.090502	eval-rmse:0.087539	train-rmspe:0.090502
[522]	train-rmse:0.0874 eval-rmspe:0.090357	eval-rmse:0.0874	train-rmspe:0.090357
[523]	train-rmse:0.087234 eval-rmspe:0.090181	eval-rmse:0.087234	train-rmspe:0.090181
[524]	train-rmse:0.087126 eval-rmspe:0.090066	eval-rmse:0.087126	train-rmspe:0.090066
[525]	train-rmse:0.086938 eval-rmspe:0.089867	eval-rmse:0.086938	train-rmspe:0.089867

[526]	train-rmse:0.086855 eval-rmspe:0.089782	eval-rmse:0.086855	train-rmspe:0.089782
[527]	train-rmse:0.086757 eval-rmspe:0.089684	eval-rmse:0.086757	train-rmspe:0.089684
[528]	train-rmse:0.086676 eval-rmspe:0.089601	eval-rmse:0.086676	train-rmspe:0.089601
[529]	train-rmse:0.086494 eval-rmspe:0.089381	eval-rmse:0.086494	train-rmspe:0.089381
[530]	train-rmse:0.086322 eval-rmspe:0.089203	eval-rmse:0.086322	train-rmspe:0.089203
[531]	train-rmse:0.086292 eval-rmspe:0.089173	eval-rmse:0.086292	train-rmspe:0.089173
[532]	train-rmse:0.086197 eval-rmspe:0.089073	eval-rmse:0.086197	train-rmspe:0.089073
[533]	train-rmse:0.086149 eval-rmspe:0.089027	eval-rmse:0.086149	train-rmspe:0.089027
[534]	train-rmse:0.08593 eval-rmspe:0.088777	eval-rmse:0.08593	train-rmspe:0.088777
[535]	train-rmse:0.085831 eval-rmspe:0.088676	eval-rmse:0.085831	train-rmspe:0.088676
[536]	train-rmse:0.085614 eval-rmspe:0.088433	eval-rmse:0.085614	train-rmspe:0.088433
[537]	train-rmse:0.085451 eval-rmspe:0.088265	eval-rmse:0.085451	train-rmspe:0.088265
[538]	train-rmse:0.085362 eval-rmspe:0.088154	eval-rmse:0.085362	train-rmspe:0.088154
[539]	train-rmse:0.085166 eval-rmspe:0.087946	eval-rmse:0.085166	train-rmspe:0.087946
[540]	train-rmse:0.085087 eval-rmspe:0.087869	eval-rmse:0.085087	train-rmspe:0.087869
[541]	train-rmse:0.084833 eval-rmspe:0.087593	eval-rmse:0.084833	train-rmspe:0.087593
[542]	train-rmse:0.084712 eval-rmspe:0.087463	eval-rmse:0.084712	train-rmspe:0.087463
[543]	train-rmse:0.084574 eval-rmspe:0.087315	eval-rmse:0.084574	train-rmspe:0.087315
[544]	train-rmse:0.084472 eval-rmspe:0.087209	eval-rmse:0.084472	train-rmspe:0.087209
[545]	train-rmse:0.084393 eval-rmspe:0.087128	eval-rmse:0.084393	train-rmspe:0.087128
[546]	train-rmse:0.084246 eval-rmspe:0.086974	eval-rmse:0.084246	train-rmspe:0.086974
[547]	train-rmse:0.084059 eval-rmspe:0.086778	eval-rmse:0.084059	train-rmspe:0.086778
[548]	train-rmse:0.084032 eval-rmspe:0.086753	eval-rmse:0.084032	train-rmspe:0.086753
[549]	train-rmse:0.08395 eval-rmspe:0.08665	eval-rmse:0.08395	train-rmspe:0.08665

[550]	train-rmse:0.083909 eval-rmspe:0.08661	eval-rmse:0.083909	train-rmspe:0.08661
[551]	train-rmse:0.083799 eval-rmspe:0.086496	eval-rmse:0.083799	train-rmspe:0.086496
[552]	train-rmse:0.083726 eval-rmspe:0.08642	eval-rmse:0.083726	train-rmspe:0.08642
[553]	train-rmse:0.083548 eval-rmspe:0.086233	eval-rmse:0.083548	train-rmspe:0.086233
[554]	train-rmse:0.083386 eval-rmspe:0.086023	eval-rmse:0.083386	train-rmspe:0.086023
[555]	train-rmse:0.083265 eval-rmspe:0.085893	eval-rmse:0.083265	train-rmspe:0.085893
[556]	train-rmse:0.083141 eval-rmspe:0.085756	eval-rmse:0.083141	train-rmspe:0.085756
[557]	train-rmse:0.083048 eval-rmspe:0.085634	eval-rmse:0.083048	train-rmspe:0.085634
[558]	train-rmse:0.082997 eval-rmspe:0.085579	eval-rmse:0.082997	train-rmspe:0.085579
[559]	train-rmse:0.082861 eval-rmspe:0.085428	eval-rmse:0.082861	train-rmspe:0.085428
[560]	train-rmse:0.082766 eval-rmspe:0.085329	eval-rmse:0.082766	train-rmspe:0.085329
[561]	train-rmse:0.082665 eval-rmspe:0.085218	eval-rmse:0.082665	train-rmspe:0.085218
[562]	train-rmse:0.082458 eval-rmspe:0.084978	eval-rmse:0.082458	train-rmspe:0.084978
[563]	train-rmse:0.082351 eval-rmspe:0.08487	eval-rmse:0.082351	train-rmspe:0.08487
[564]	train-rmse:0.082255 eval-rmspe:0.084761	eval-rmse:0.082255	train-rmspe:0.084761
[565]	train-rmse:0.081951 eval-rmspe:0.084421	eval-rmse:0.081951	train-rmspe:0.084421
[566]	train-rmse:0.08188 eval-rmspe:0.084348	eval-rmse:0.08188	train-rmspe:0.084348
[567]	train-rmse:0.08175 eval-rmspe:0.084207	eval-rmse:0.08175	train-rmspe:0.084207
[568]	train-rmse:0.081485 eval-rmspe:0.083874	eval-rmse:0.081485	train-rmspe:0.083874
[569]	train-rmse:0.081444 eval-rmspe:0.083831	eval-rmse:0.081444	train-rmspe:0.083831
[570]	train-rmse:0.081278 eval-rmspe:0.083641	eval-rmse:0.081278	train-rmspe:0.083641
[571]	train-rmse:0.081169 eval-rmspe:0.083522	eval-rmse:0.081169	train-rmspe:0.083522
[572]	train-rmse:0.081108 eval-rmspe:0.083455	eval-rmse:0.081108	train-rmspe:0.083455
[573]	train-rmse:0.081039 eval-rmspe:0.083384	eval-rmse:0.081039	train-rmspe:0.083384

[574]	train-rmse:0.080951 eval-rmspe:0.083295	eval-rmse:0.080951	train-rmspe:0.083295
[575]	train-rmse:0.080864 eval-rmspe:0.083202	eval-rmse:0.080864	train-rmspe:0.083202
[576]	train-rmse:0.080753 eval-rmspe:0.083056	eval-rmse:0.080753	train-rmspe:0.083056
[577]	train-rmse:0.080651 eval-rmspe:0.082919	eval-rmse:0.080651	train-rmspe:0.082919
[578]	train-rmse:0.080501 eval-rmspe:0.082758	eval-rmse:0.080501	train-rmspe:0.082758
[579]	train-rmse:0.080347 eval-rmspe:0.082597	eval-rmse:0.080347	train-rmspe:0.082597
[580]	train-rmse:0.080297 eval-rmspe:0.082541	eval-rmse:0.080297	train-rmspe:0.082541
[581]	train-rmse:0.080251 eval-rmspe:0.082495	eval-rmse:0.080251	train-rmspe:0.082495
[582]	train-rmse:0.080158 eval-rmspe:0.082397	eval-rmse:0.080158	train-rmspe:0.082397
[583]	train-rmse:0.080089 eval-rmspe:0.082327	eval-rmse:0.080089	train-rmspe:0.082327
[584]	train-rmse:0.080001 eval-rmspe:0.082237	eval-rmse:0.080001	train-rmspe:0.082237
[585]	train-rmse:0.079965 eval-rmspe:0.082201	eval-rmse:0.079965	train-rmspe:0.082201
[586]	train-rmse:0.079818 eval-rmspe:0.082034	eval-rmse:0.079818	train-rmspe:0.082034
[587]	train-rmse:0.079688 eval-rmspe:0.081903	eval-rmse:0.079688	train-rmspe:0.081903
[588]	train-rmse:0.079577 eval-rmspe:0.081783	eval-rmse:0.079577	train-rmspe:0.081783
[589]	train-rmse:0.079463 eval-rmspe:0.08166	eval-rmse:0.079463	train-rmspe:0.08166
[590]	train-rmse:0.079253 eval-rmspe:0.081425	eval-rmse:0.079253	train-rmspe:0.081425
[591]	train-rmse:0.079165 eval-rmspe:0.081329	eval-rmse:0.079165	train-rmspe:0.081329
[592]	train-rmse:0.079113 eval-rmspe:0.081272	eval-rmse:0.079113	train-rmspe:0.081272
[593]	train-rmse:0.078824 eval-rmspe:0.080924	eval-rmse:0.078824	train-rmspe:0.080924
[594]	train-rmse:0.078775 eval-rmspe:0.080869	eval-rmse:0.078775	train-rmspe:0.080869
[595]	train-rmse:0.078695 eval-rmspe:0.080787	eval-rmse:0.078695	train-rmspe:0.080787
[596]	train-rmse:0.078633 eval-rmspe:0.080723	eval-rmse:0.078633	train-rmspe:0.080723
[597]	train-rmse:0.07851 eval-rmspe:0.080587	eval-rmse:0.07851	train-rmspe:0.080587

```

[598]   train-rmse:0.078496      eval-rmse:0.078496      train-rmspe:0.080573
eval-rmspe:0.080573
[599]   train-rmse:0.078414      eval-rmse:0.078414      train-rmspe:0.080491
eval-rmspe:0.080491
round 10 end
Training is end
Training time is 0.2738799624972873 h.

```

```

[50]: #(round)
print ('Validating')

bagged_ho_preds1 = preds_ho.mean(axis = 1)
error1 = rmspe(np.expm1(ho_ytest), np.expm1(bagged_ho_preds1))
print('RMSPE for mean: {:.6f}'.format(error1))

#(round)
R = range(10)
Mw = [0.20,0.20,0.10,0.10,0.10,0.10,0.10,0.10,0.00,0.00]
A = pd.DataFrame()
A['round']=R
A['best_score']=B
A.sort_values(['best_score'],inplace = True)
A['weight']=Mw
A.sort_values(['round'],inplace = True)
weight=np.array(A['weight'])
preds_ho_w=weight*preds_ho
bagged_ho_preds2 = preds_ho_w.sum(axis = 1)
error2 = rmspe(np.expm1(ho_ytest), np.expm1(bagged_ho_preds2))
print('RMSPE for weight: {:.6f}'.format(error2))

```

```

Validating
RMSPE for mean: 0.074189
RMSPE for weight: 0.073777

```

```

[51]: ##
#
print("Make predictions on the test set")
bagged_preds = preds_test.mean(axis = 1)
result = pd.DataFrame({"Id": test['Id'], 'Sales': np.expm1(bagged_preds)})
result.to_csv("meanCombination.csv", index=False)
#
bagged_preds = (preds_test*weight).sum(axis = 1)
result = pd.DataFrame({"Id": test['Id'], 'Sales': np.expm1(bagged_preds)})
result.to_csv("WeightCombination.csv", index=False)

```

```

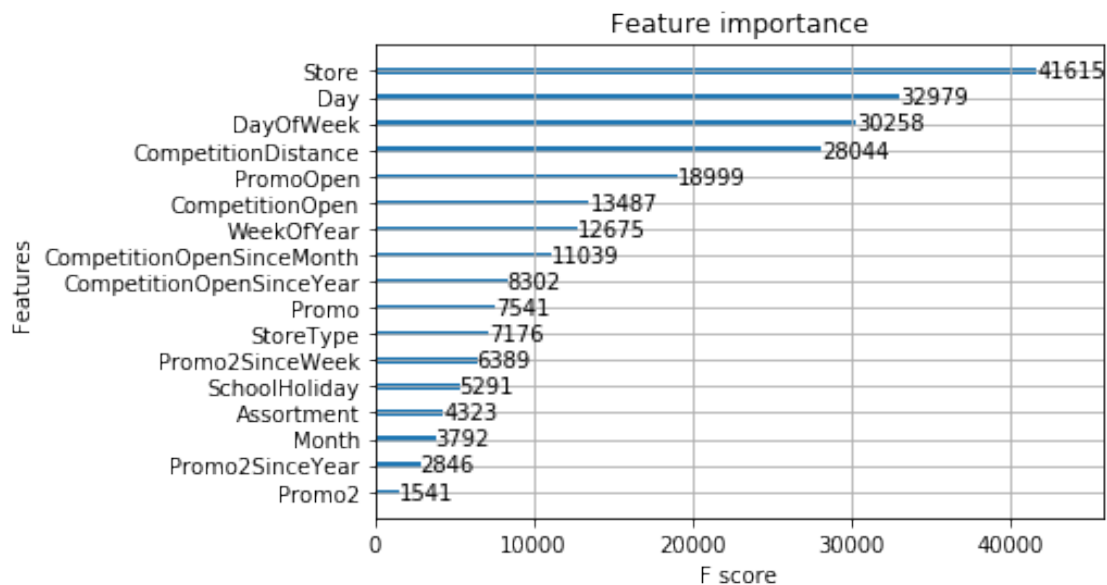
Make predictions on the test set

```

13

```
[52]: #
xgb.plot_importance(gbm)
# - 1. 'Day' 'DayOfWeek' 'WeekOfYera' 'Month' 2. 'Store' 'StoreTyp' 3. 'Promo':
→ 'PromoOpen' 'Promo' 4.
→ 'CompetitionOpen' 'CompetitionDistance' 'CompetitionOpenSinceMoTh' 'CompetitionOpenScinceyear'
# - 1. 'SchoolHoliday' 'StateHoliday' 2.
→ (Promo2) 'Promo2' 'Prom2SinceYear' 'Prom2SinceWeek'
```

[52]: <matplotlib.axes._subplots.AxesSubplot at 0x10b729b38>



```
[53]: #
res1 = pd.DataFrame(data = ho_ytest)
res1['Prediction']=bagged_ho_preds2
res1 = pd.merge(ho_xtest,res1, left_index= True, right_index=True)
res1['Ratio'] = res1.Prediction/res.Sales
res1['Error'] =abs(res1.Ratio-1)
res1.head()
```

```
[53]:   Store  DayOfWeek  Promo  StateHoliday  SchoolHoliday  StoreType  \
0      1          4      1             0              1           3
1      1          3      1             0              1           3
2      1          2      1             0              1           3
3      1          1      1             0              1           3
4      1          0      1             0              1           3

   Assortment  CompetitionDistance  CompetitionOpenSinceMonth  \
0           1                1270.0                    9.0
```

1	1	1270.0	9.0
2	1	1270.0	9.0
3	1	1270.0	9.0
4	1	1270.0	9.0

	CompetitionOpenSinceYear	...	Month	Day	WeekOfYear	CompetitionOpen	\
0	2008.0	...	7	31	31	82.0	
1	2008.0	...	7	30	31	82.0	
2	2008.0	...	7	29	31	82.0	
3	2008.0	...	7	28	31	82.0	
4	2008.0	...	7	27	31	82.0	

	PromoOpen	IsPromoMonth	Sales	Prediction	Ratio	Error
0	24187.75	1.0	8.568646	8.568202	0.999948	0.000052
1	24187.75	1.0	8.521384	8.495686	0.996984	0.003016
2	24187.75	1.0	8.472823	8.480690	1.000928	0.000928
3	24187.75	1.0	8.519590	8.528154	1.001005	0.001005
4	24187.75	1.0	8.716536	8.658512	0.993343	0.006657

[5 rows x 24 columns]

```
[54]: #10
res1.sort_values(['Error'],ascending=False,inplace= True)
res['Store_new'] = res1['Store']
res['Error_new'] = res1['Error']
res['Ratio_new'] = res1['Ratio']
col_3 = ['Store', 'Ratio', 'Error', 'Store_new', 'Ratio_new', 'Error_new']
com = pd.DataFrame(res,columns = col_3)
com[:10]
```

	Store	Ratio	Error	Store_new	Ratio_new	Error_new
264207	292	1.162414	0.162414	292	1.157037	0.157037
711449	782	1.102852	0.102852	782	1.093553	0.093553
264213	292	1.080666	0.080666	292	1.069271	0.069271
456286	501	1.079322	0.079322	501	1.064904	0.064904
937688	1029	1.078703	0.078703	1029	1.058257	0.058257
937667	1029	1.076170	0.076170	1029	1.060119	0.060119
165039	183	0.923866	0.076134	183	0.913065	0.086935
818909	899	1.072484	0.072484	899	1.051540	0.051540
440257	483	1.069659	0.069659	483	1.054736	0.054736
264218	292	0.933997	0.066003	292	0.922158	0.077842

[]: