

机器学习工程师纳米学位毕业项目

预测 *Rossmann* 未来销量项目

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1 定义

1.1 项目背景

Rossmann 公司在 7 个欧洲国家拥有超过 3000 家药店。Rossmann 的经理的任务是提前六周预测药店的日常销售金额。药店销售额会受到包括促销、竞赛、学校和州的节假日，季节以及所在地址等等因素的影响。Rossmann 的经理目前已经根据实际情况，用个人的方式进行了种种预测，由于预测方式的不同，实际准确性上有较大的区别。

为此，Rossmann 公司举行了预测日常销售金额的竞赛项目。作为竞赛参与者，需要对在德国的 1115 家药店预测 6 周日常销售额。准确率高且可靠的销售预测模型可以为 Rossmann 公司各个药店的经理创建更加有效的员工日程安排，从而提高员工的劳动力与工作积极性。同时，为 Rossmann 建立预测模型，也可以帮助各位药店经理将重点和焦点放在如何提高客户满意度以及优化团队建设这些更加重要的方面上。

为解决此问题，需要先对历史销售数据进行探索性数据分析(EDA)，处理异常值，发现潜在结构;提取合适的特征，建立预测模型;对模型进行训练，获得模型较优参数，提高预测准确性。

1.2 问题陈述

为 Rossmann 公司的 1115 家德国药店建立预测未来 6 周的销售的模型。该任务是一个回归预测类问题，即根据现有的历史数据:各药店历史日期中的销售、药店规模、促销方案、假期安排等等数据，进行特征分析以及预测目标分析。从历史数据合理划分训练集和验证集，使用试 GBDT 类模型，例如 xgboost、lightgbm 等模型预测未来 6 周的销售情况。

1.3 评估指标

采用 RMSPE 评估，数学表达式为:

$$\text{RMSPE} = \sqrt{\frac{1}{n} \sum_{i=1}^n \left(\frac{y_i - \hat{y}_i}{y_i} \right)^2},$$

注释:

y_i :在某日期某个 store 的实际销售;

\hat{y}_i :经模型预测在某日期某个 store 的实际销售。

2 分析

2.1 数据集和输入

- 文档

train.csv - 包含销售的历史数据

test.csv - 无销售的历史数据，用于输入模型后得出预测值，与实际销售比较计算准确率

sample_submission.csv - 正确提交的数据格式

store.csv - 关于商店的补充信息(包含商店规模、促销方案与时间等信息)

- 文档字段说明

Id - 每个日期的每个药店的识别序号

Store - 每个药店的唯一序号

Sales - 每个已知日期的药店的周转(turnover) (目标预测值)

Customers - 已知日期的客户量

Open - 药店是否营业的标示符: 0 = 不营业, 1 = 营业

StateHoliday - 表示州假日。通常情况下，除了少数例外，所有商店都会在州假期关闭。所有的学校在公共假日和周末都是 close 的。 a =

public holiday, b =Easter holiday, c = Christmas, 0 = None SchoolHoliday - 表明(商店，日期)是否受到公立学校关闭的影响

StoreType - 区分 4 种不同的商店规模: a, b, c, d

Assortment - 描述了一个分类级别: a = basic, b = extra, c = extended

CompetitionDistance - 距离最近的竞争对手商店的距离

CompetitionOpenSince[Month/Year] - 距离最近的竞争对手开业的时间(月/年)

Promo - 表示当天该药店是否在进行促销活动

Promo2 - 表示一些药店持续的促销活动: 0 = 药店未参与, 1 = 药店正在参与

Promo2Since[Year/Week] - 描述商店开始参与持续促销活动的年份和日历周

PromoInterval - 描述持续促销活动, 启动的连续间隔, 以促销月份命名 E.g.

"Feb,May,Aug,Nov" means each round starts in February, May, August, November of any given year for that store

2.2 基准模型

准备使用回归模型:XGBoost 模型.

XGBoost 模型的优势:

- 在寻找最佳分割点时, 考虑传统的枚举每个特征的所有可能分割点的贪心法效率太低, xgboost实现了一种近似的算法。大致的思想是根据百分位法列举几个可能成为分割点的候选者, 然后从候选者中根据上面求分割点的公式计算找出最佳的分割点。
- xgboost考虑了训练数据为稀疏值的情况, 可以为缺失值或者指定的值指定分支的默认方向, 这能大大提升算法的效率, paper提到50倍。
- 特征列排序后以块的形式存储在内存中, 在迭代中可以重复使用; 虽然boosting算法迭代必须串行, 但是在处理每个特征列时可以做到并行。

- 按照特征列方式存储能优化寻找最佳的分割点，但是当以行计算梯度数据时会导致内存的不连续访问，严重时会导致cache miss，降低算法效率。
paper中提到，可先将数据收集到线程内部的buffer，然后再计算，提高算法的效率。
- xgboost 还考虑了当数据量比较大，内存不够时怎么有效的使用磁盘，主要是结合多线程、数据压缩、分片的方法，尽可能的提高算法的效率。

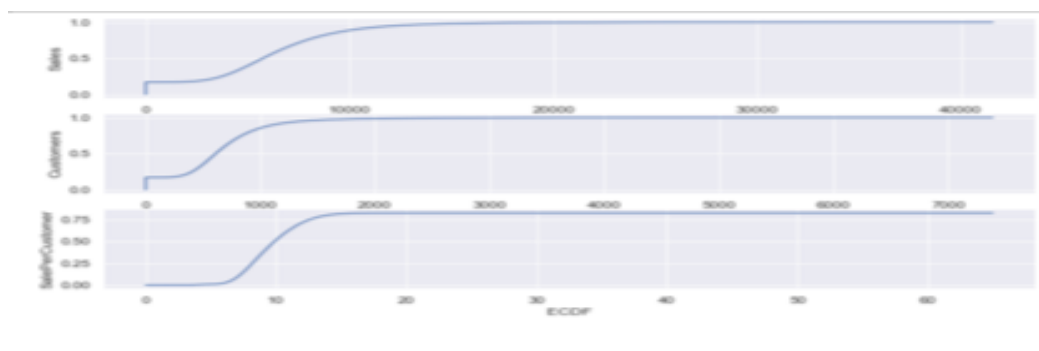
参数设定: `params = {"objective": "reg:linear", "booster": "gbtree", "eta": 0.04, "max_depth": 10, "subsample": 0.9, "colsample_bytree": 0.7, "silent": 1, "seed": 13 }`

用 XGBoost 模型递归地构建二叉决策树的过程，基于训练数据集生成决策树，使用最小二乘偏差(LSD)或最小绝对偏差(LAD)来获取最优分裂属性;用验证数据集对已生成的树进行剪枝并选择最优子树，这时损失函数最小 作为剪枝的标准。

任何销量为 0 的预测在评价中都会被忽略。

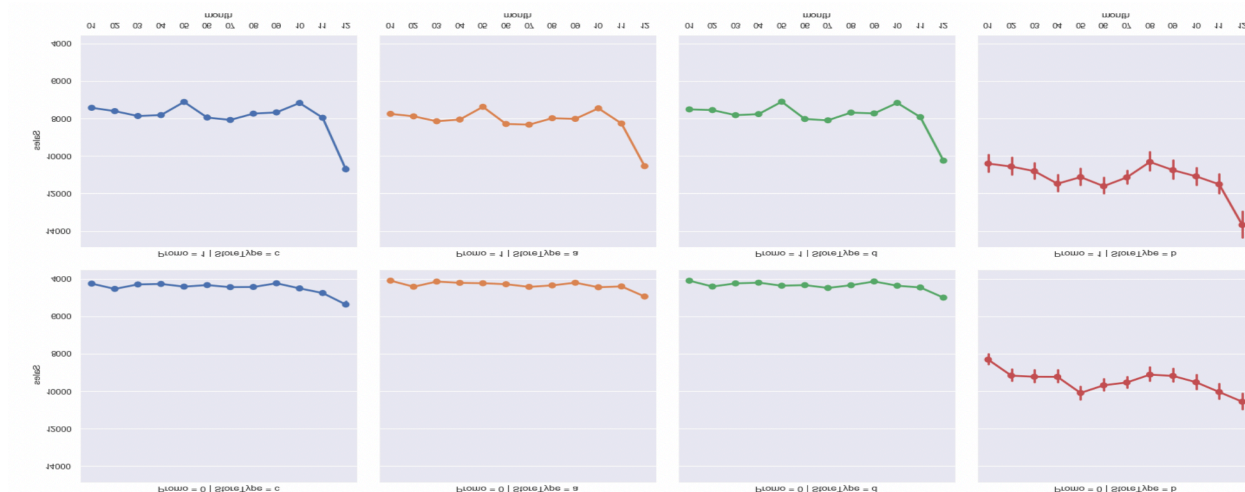
2.3 可视化分析

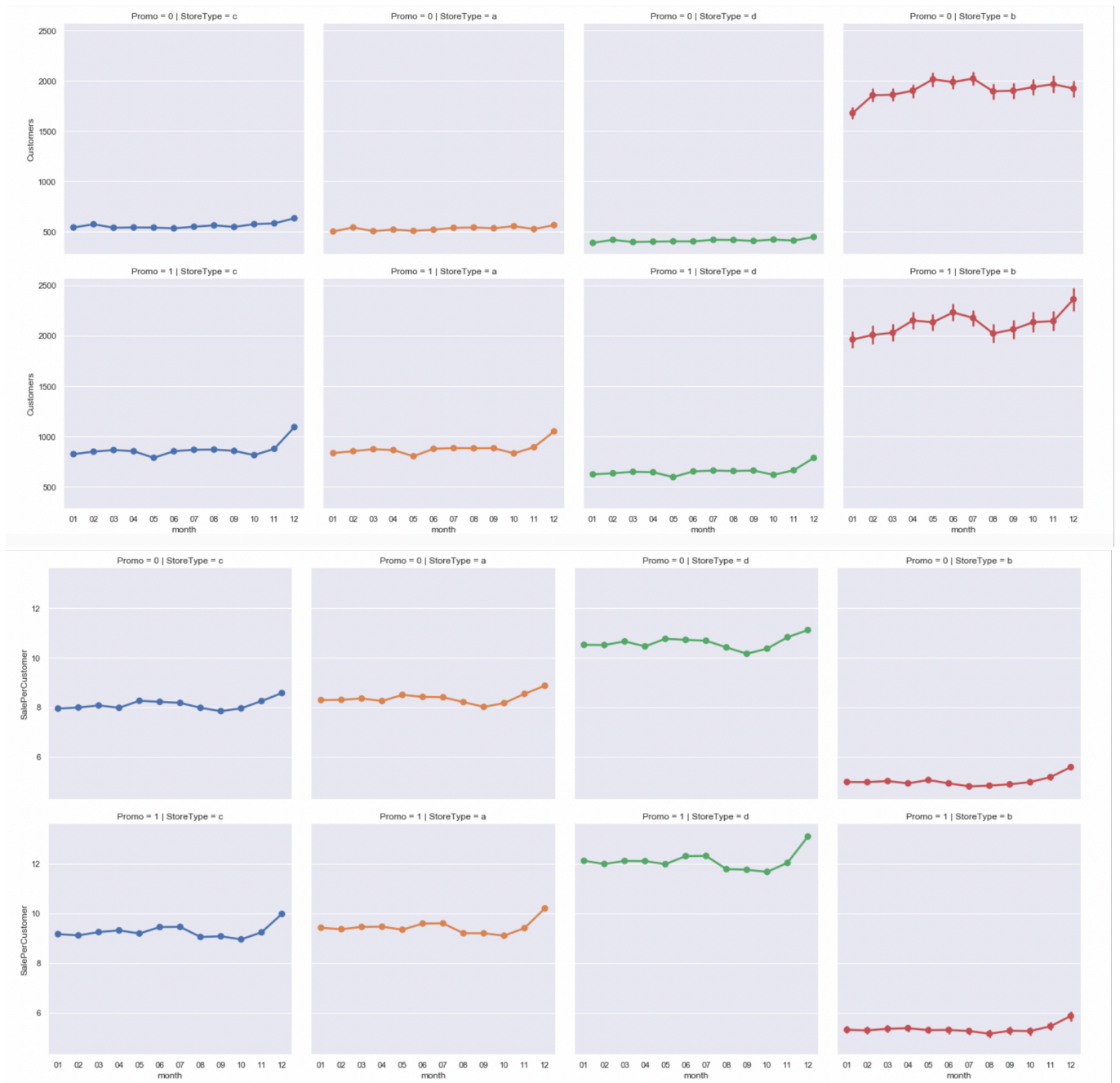
1. 关键数据的 ECDF 分析(Sales/Customers/SalePerCustomer)



训练集(train.csv)当中有约 28%的数据没有 Sales 和 Customers 记录，主要原因是 store 未营业，极少数是由于极端情况导致在营业情况下无营业额。

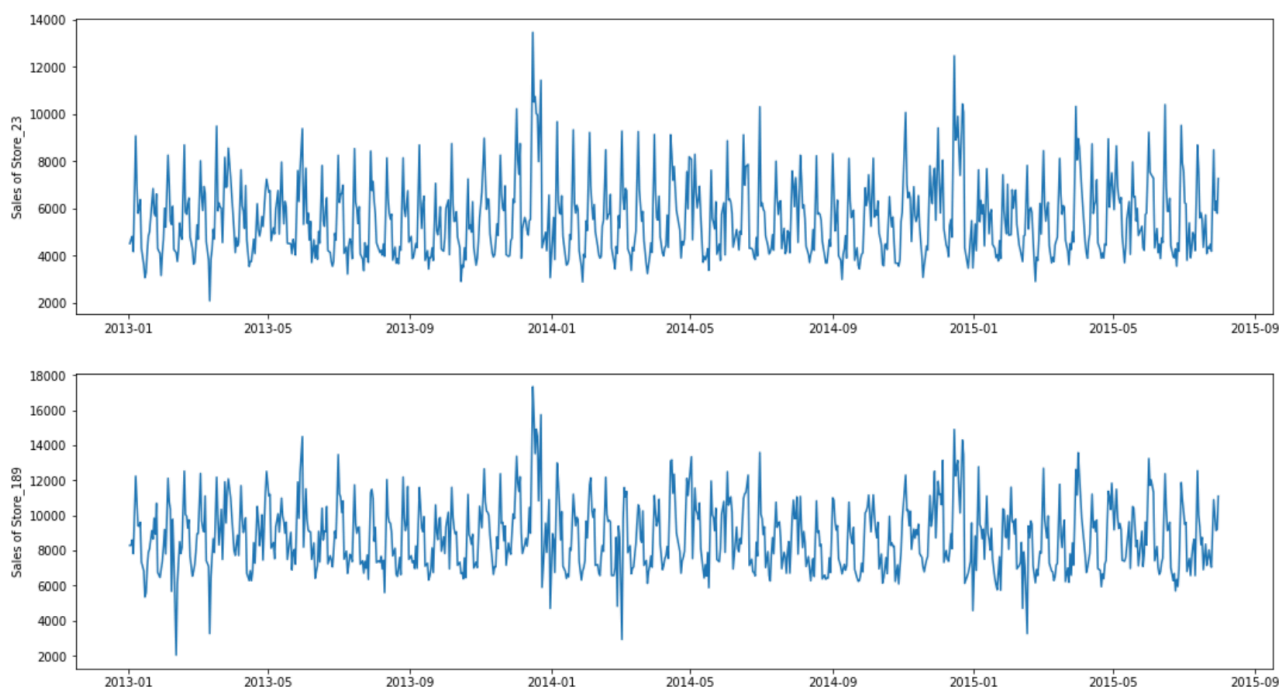
2. 关键数据逐月分析





根据 Sales/Customers 的变化，可合理推测，store 的销售与 StoreType 有直接关系，且虽然 StoreType 为 b 的 store 的客户量和销售额高于其他类型的 store，但是人均销售却是最低的，推测 b store 主要销售小类多量商品；4 类 store 的销量在月份上基本呈现相同的波动趋势，推测实际销量与月份有较大的联系。

3. 随机 store 的销售趋势（选择 store_23 与 store_189）：



简览随机两个store的销售趋势，在2013年-2015年的三年间的波动趋势基本保持一致，而且明显在12月圣诞节附近有较大的增加，推测销售与节假日有较大关系。

3 解决方案

3.1 数据特征处理

1."Open"为空赋值为1，默认所有无Open状态的Store均为营业状态;

2.train.csv训练集当中只看open为1且sales>0的子集记录;

- 3.合并store.csv和train.csv&test.csv,在训练集和预测集上增加store状态明细，扩张特征;
- 4.所有空值填0;
- 5.对分类向量'StoreType','Assortment','StateHoliday'中将0abcd转换成数值 01234;
- 6.从日期中抽出Year,Month,Day,DOW(DayofWeek),WOY(Week of Year);
7. 创建竞争对手开店月数，优惠月数，每条记录的所处月份是否是优惠月，作为新的特征向量。

```
def data_EDA(data):
    data[['year', 'month', 'day']] = data.Date.str.split('-', expand=True).apply(pd.to_numeric)
    data['WeekofYear'] = pd.to_datetime(data['Date']).dt.weekofyear

    data['CompetitionOpen'] = 12 * (data.year - data.CompetitionOpenSinceYear) + (data.month - data.CompetitionOpenSinceMonth)
    data['CompetitionOpen'] = data['CompetitionOpen'].apply(lambda x: x if x > 0 else 0)

    data['Promo2Open'] = 12 * (data.year - data.Promo2SinceYear) + (data.WeekofYear - data.Promo2SinceWeek) / 4.0
    data['Promo2Open'] = data['Promo2Open'].apply(lambda x: x if x > 0 else 0)

    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'}
    trans = {'0': 0, 'a': 1, 'b': 2, 'c': 3, 'd': 4}

    data['monthStr'] = data.month.map(month2str)

    #data['StoreType'] = data.StoreType.map(trans)
    #data['Assortment'] = data.Assortment.map(trans)
    #data['StateHoliday'] = data.StateHoliday.map(trans)
    data = data.join(pd.get_dummies(data[['Assortment', 'StoreType', 'StateHoliday']]))

    data.fillna(0, inplace=True)
    data.loc[data.PromoInterval == 0, 'PromoInterval'] = ''
    data['IsPromoMonth'] = 0
    for item in data.PromoInterval.unique():
        if item != '':
            for month in item.split(','):
                data.loc[(data.monthStr == month) & (data.PromoInterval == item), 'IsPromoMonth'] = 1
    return data
```

3.1 建立模型

1.选择模型 XGBoost 模型

2.参数设定: `params = {"objective": "reg:linear", "booster": "gbtree", "eta": 0.04, "max_depth": 10, "subsample": 0.9, "colsample_bytree": 0.7, "silent": 1, "seed": 13 }`

3. 拆分训练集，取其中1.2%数据作为验证集，验证模型预测准确率情况

4. 用训练完成的模型预测测试集，获得预测值。

4 结果

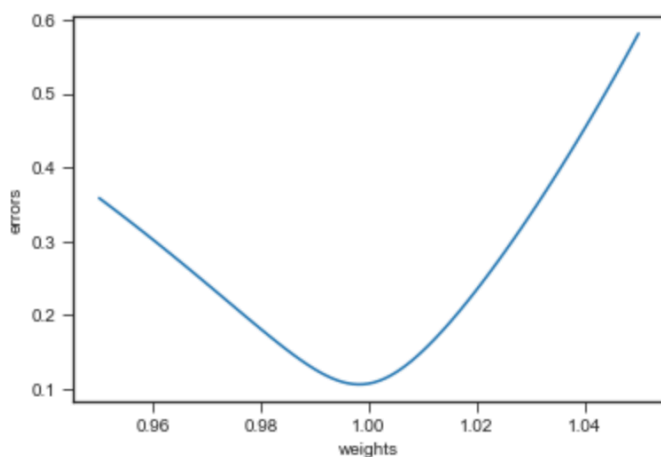
4.1 验证集误差

验证集选择:

按日期排序后，选择距离测试集最近的 1.2%的训练数据作为验证集数据进行模型验证。

```
1 [61]: select_weights()
```

the min error weight is: 0.998,and the error is 0.10636211308414344



占0.012的验证集在模型训练后的考虑到误差权重，最终error=0.106

4.2 模型训练收敛

具体收敛loss请见附录，实际收敛次数为2500次。

4.3 测试集误差

如下，原 Rossmann_Sales 项目总参赛人数为 3303 名，以 Private Score 为 0.11726 占当时比赛的 290 名，即前 8.7%。

All Successful Selected						
Submission and Description			Private Score	Public Score	Use for Final Score	
sub_df15.csv 8 minutes ago by Juni Yao add submission details			0.11726	0.10724	<input type="checkbox"/>	
289	▼ 118	AA2015		0.11724	9	3y
290	▼ 49	ManOfStats		0.11726	126	3y

5 参考文献与链接:

1. 模型建立: <https://www.jianshu.com/p/7467e616f227>
2. 数据可视化与处理: <https://www.kaggle.com/elenapetrova/time-series-analysis-and-forecasts-with-prophet>
3. 数据模型分析: <https://www.kaggle.com/danspace/rossmann-store-sales-xgboost/notebook>

6 附录

```
[0]      train-rmse:7.9381      eval-rmse:7.98486      train-rmspe:0.999777  eval
-rmspe:0.999788
```

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:7.62132      eval-rmse:7.66858      train-rmspe:0.999631  eval
-rmspe:0.999649
[2]      train-rmse:7.31711      eval-rmse:7.36234      train-rmspe:0.99944   eval
-rmspe:0.999466
[3]      train-rmse:7.02509      eval-rmse:7.06952      train-rmspe:0.999193  eval
-rmspe:0.999231
[4]      train-rmse:6.74472      eval-rmse:6.7878      train-rmspe:0.99888   eval
-rmspe:0.998931
[5]      train-rmse:6.4756      eval-rmse:6.51712      train-rmspe:0.998484  eval
-rmspe:0.998552
[6]      train-rmse:6.21726      eval-rmse:6.25631      train-rmspe:0.997991  eval
-rmspe:0.998076
[7]      train-rmse:5.96929      eval-rmse:6.00592      train-rmspe:0.997383  eval
-rmspe:0.997487
[8]      train-rmse:5.73127      eval-rmse:5.76572      train-rmspe:0.996638  eval
-rmspe:0.996766
[9]      train-rmse:5.50282      eval-rmse:5.53608      train-rmspe:0.995738  eval
-rmspe:0.995895
[10]     train-rmse:5.28354      eval-rmse:5.31556      train-rmspe:0.994656  eval
-rmspe:0.994846
[11]     train-rmse:5.07303      eval-rmse:5.10317      train-rmspe:0.993373  eval
-rmspe:0.993597
[12]     train-rmse:4.87092      eval-rmse:4.89965      train-rmspe:0.991863  eval
-rmspe:0.992127
[13]     train-rmse:4.67701      eval-rmse:4.70387      train-rmspe:0.990094  eval
-rmspe:0.990397
[14]     train-rmse:4.49078      eval-rmse:4.51609      train-rmspe:0.988047  eval
-rmspe:0.988394
[15]     train-rmse:4.31206      eval-rmse:4.33545      train-rmspe:0.985691  eval
-rmspe:0.986079
[16]     train-rmse:4.14051      eval-rmse:4.16232      train-rmspe:0.983     eval
-rmspe:0.983434
[17]     train-rmse:3.97592      eval-rmse:3.99707      train-rmspe:0.979941  eval
-rmspe:0.980439
```

[18]	train-rmse:3.81795 -rmspe:0.977045	eval-rmse:3.83785	train-rmspe:0.976495	eval
[19]	train-rmse:3.66624 -rmspe:0.973261	eval-rmse:3.68529	train-rmspe:0.972645	eval
[20]	train-rmse:3.52056 -rmspe:0.96906	eval-rmse:3.53891	train-rmspe:0.968371	eval
[21]	train-rmse:3.3808 -rmspe:0.964429	eval-rmse:3.39924	train-rmspe:0.963638	eval
[22]	train-rmse:3.24674 -rmspe:0.95931	eval-rmse:3.2648	train-rmspe:0.958421	eval
[23]	train-rmse:3.11799 -rmspe:0.953694	eval-rmse:3.13517	train-rmspe:0.95273	eval
[24]	train-rmse:2.99446 -rmspe:0.947559	eval-rmse:3.01069	train-rmspe:0.94654	eval
[25]	train-rmse:2.87591 -rmspe:0.94088	eval-rmse:2.89068	train-rmspe:0.939834	eval
[26]	train-rmse:2.76216 -rmspe:0.933746	eval-rmse:2.77642	train-rmspe:0.932614	eval
[27]	train-rmse:2.65295 -rmspe:0.926076	eval-rmse:2.66631	train-rmspe:0.924886	eval
[28]	train-rmse:2.54819 -rmspe:0.917858	eval-rmse:2.5606	train-rmspe:0.916629	eval
[29]	train-rmse:2.44765 -rmspe:0.909123	eval-rmse:2.45925	train-rmspe:0.907871	eval
[30]	train-rmse:2.35113 -rmspe:0.899934	eval-rmse:2.36235	train-rmspe:0.89861	eval
[31]	train-rmse:2.25858 -rmspe:0.890174	eval-rmse:2.26891	train-rmspe:0.888838	eval
[32]	train-rmse:2.16982 -rmspe:0.879957	eval-rmse:2.17979	train-rmspe:0.878569	eval
[33]	train-rmse:2.0845 -rmspe:0.869292	eval-rmse:2.09393	train-rmspe:0.867877	eval
[34]	train-rmse:2.00277 -rmspe:0.858052	eval-rmse:2.01132	train-rmspe:0.856704	eval
[35]	train-rmse:1.92427 -rmspe:0.846459	eval-rmse:1.93223	train-rmspe:0.845124	eval
[36]	train-rmse:1.84911 -rmspe:0.834461	eval-rmse:1.85685	train-rmspe:0.833108	eval
[37]	train-rmse:1.77687 -rmspe:0.822135	eval-rmse:1.78446	train-rmspe:0.82075	eval
[38]	train-rmse:1.7077 -rmspe:0.80935	eval-rmse:1.71483	train-rmspe:0.808017	eval
[39]	train-rmse:1.64129 -rmspe:0.79631	eval-rmse:1.64813	train-rmspe:0.79499	eval

[40]	train-rmse:1.57767 -rmspe:0.782867	eval-rmse:1.58395	train-rmspe:0.781656	eval
[41]	train-rmse:1.51657 -rmspe:0.769221	eval-rmse:1.52244	train-rmspe:0.76809	eval
[42]	train-rmse:1.45772 -rmspe:0.755427	eval-rmse:1.46333	train-rmspe:0.754367	eval
[43]	train-rmse:1.40161 -rmspe:0.741302	eval-rmse:1.40687	train-rmspe:0.740376	eval
[44]	train-rmse:1.3476 -rmspe:0.727139	eval-rmse:1.35281	train-rmspe:0.726277	eval
[45]	train-rmse:1.29585 -rmspe:0.712891	eval-rmse:1.30123	train-rmspe:0.712046	eval
[46]	train-rmse:1.24641 -rmspe:0.698175	eval-rmse:1.25089	train-rmspe:0.697697	eval
[47]	train-rmse:1.19888 -rmspe:0.683709	eval-rmse:1.20342	train-rmspe:0.683299	eval
[48]	train-rmse:1.15337 -rmspe:0.66917	eval-rmse:1.15782	train-rmspe:0.668891	eval
[49]	train-rmse:1.10949 -rmspe:0.6546	eval-rmse:1.11362	train-rmspe:0.654521	eval
[50]	train-rmse:1.06783 -rmspe:0.63997	eval-rmse:1.07175	train-rmspe:0.640125	eval
[51]	train-rmse:1.02769 -rmspe:0.62522	eval-rmse:1.03076	train-rmspe:0.625846	eval
[52]	train-rmse:0.989344 -rmspe:0.610677	eval-rmse:0.99208	train-rmspe:0.611644	eval
[53]	train-rmse:0.95263 -rmspe:0.596403	eval-rmse:0.955461	train-rmspe:0.59755	eval
[54]	train-rmse:0.917548 -rmspe:0.582218	eval-rmse:0.920337	train-rmspe:0.583601	eval
[55]	train-rmse:0.883928 -rmspe:0.568239	eval-rmse:0.88674	train-rmspe:0.569862	eval
[56]	train-rmse:0.851868 -rmspe:0.554494	eval-rmse:0.854783	train-rmspe:0.556338	eval
[57]	train-rmse:0.821123 -rmspe:0.540786	eval-rmse:0.823898	train-rmspe:0.54307	eval
[58]	train-rmse:0.791265 -rmspe:0.527404	eval-rmse:0.794035	train-rmspe:0.530035	eval
[59]	train-rmse:0.763029 -rmspe:0.514028	eval-rmse:0.765404	train-rmspe:0.517224	eval
[60]	train-rmse:0.736072 -rmspe:0.501022	eval-rmse:0.738189	train-rmspe:0.504719	eval
[61]	train-rmse:0.710435 -rmspe:0.488619	eval-rmse:0.712885	train-rmspe:0.492549	eval

[62]	train-rmse:0.685618 -rmspe:0.476404	eval-rmse:0.688212	train-rmspe:0.480647	eval
[63]	train-rmse:0.662136 -rmspe:0.464394	eval-rmse:0.664767	train-rmspe:0.469136	eval
[64]	train-rmse:0.639583 -rmspe:0.452584	eval-rmse:0.642043	train-rmspe:0.457927	eval
[65]	train-rmse:0.618213 -rmspe:0.441283	eval-rmse:0.620736	train-rmspe:0.447106	eval
[66]	train-rmse:0.597743 -rmspe:0.430204	eval-rmse:0.60021	train-rmspe:0.436599	eval
[67]	train-rmse:0.578299 -rmspe:0.419615	eval-rmse:0.58085	train-rmspe:0.426548	eval
[68]	train-rmse:0.559782 -rmspe:0.409253	eval-rmse:0.562127	train-rmspe:0.416802	eval
[69]	train-rmse:0.541999 -rmspe:0.399246	eval-rmse:0.54426	train-rmspe:0.407422	eval
[70]	train-rmse:0.52513 -rmspe:0.389227	eval-rmse:0.526602	train-rmspe:0.398416	eval
[71]	train-rmse:0.508874 -rmspe:0.379862	eval-rmse:0.510242	train-rmspe:0.389684	eval
[72]	train-rmse:0.49307 -rmspe:0.370644	eval-rmse:0.494195	train-rmspe:0.381269	eval
[73]	train-rmse:0.478547 -rmspe:0.362031	eval-rmse:0.479366	train-rmspe:0.373495	eval
[74]	train-rmse:0.464509 -rmspe:0.353801	eval-rmse:0.465242	train-rmspe:0.365992	eval
[75]	train-rmse:0.451442 -rmspe:0.345977	eval-rmse:0.451869	train-rmspe:0.359018	eval
[76]	train-rmse:0.438934 -rmspe:0.33849	eval-rmse:0.439158	train-rmspe:0.352342	eval
[77]	train-rmse:0.427192 -rmspe:0.331723	eval-rmse:0.427671	train-rmspe:0.346151	eval
[78]	train-rmse:0.415612 -rmspe:0.324881	eval-rmse:0.416037	train-rmspe:0.339994	eval
[79]	train-rmse:0.404886 -rmspe:0.318738	eval-rmse:0.405594	train-rmspe:0.334428	eval
[80]	train-rmse:0.394569 -rmspe:0.312695	eval-rmse:0.395397	train-rmspe:0.32897	eval
[81]	train-rmse:0.385077 -rmspe:0.307257	eval-rmse:0.386044	train-rmspe:0.324031	eval
[82]	train-rmse:0.375675 -rmspe:0.301491	eval-rmse:0.376228	train-rmspe:0.319244	eval
[83]	train-rmse:0.366695 -rmspe:0.296115	eval-rmse:0.367047	train-rmspe:0.314764	eval

[84]	train-rmse:0.358532	eval-rmse:0.358315	train-rmspe:0.310803	eval-rmspe:0.291123
[85]	train-rmse:0.350922	eval-rmse:0.35004	train-rmspe:0.307149	eval-rmspe:0.286319
[86]	train-rmse:0.343489	eval-rmse:0.342593	train-rmspe:0.303622	eval-rmspe:0.282106
[87]	train-rmse:0.336592	eval-rmse:0.335566	train-rmspe:0.300421	eval-rmspe:0.278233
[88]	train-rmse:0.328137	eval-rmse:0.327213	train-rmspe:0.296068	eval-rmspe:0.273205
[89]	train-rmse:0.322002	eval-rmse:0.320367	train-rmspe:0.293338	eval-rmspe:0.269382
[90]	train-rmse:0.315769	eval-rmse:0.314131	train-rmspe:0.290527	eval-rmspe:0.265932
[91]	train-rmse:0.309648	eval-rmse:0.307569	train-rmspe:0.287733	eval-rmspe:0.262113
[92]	train-rmse:0.304235	eval-rmse:0.302102	train-rmspe:0.285391	eval-rmspe:0.259206
[93]	train-rmse:0.298701	eval-rmse:0.296445	train-rmspe:0.283055	eval-rmspe:0.256104
[94]	train-rmse:0.29375	eval-rmse:0.291543	train-rmspe:0.281096	eval-rmspe:0.253594
[95]	train-rmse:0.289674	eval-rmse:0.287514	train-rmspe:0.279827	eval-rmspe:0.251771
[96]	train-rmse:0.285145	eval-rmse:0.282666	train-rmspe:0.278026	eval-rmspe:0.249065
[97]	train-rmse:0.28101	eval-rmse:0.278614	train-rmspe:0.276465	eval-rmspe:0.246973
[98]	train-rmse:0.277539	eval-rmse:0.275467	train-rmspe:0.275507	eval-rmspe:0.245673
[99]	train-rmse:0.273696	eval-rmse:0.271549	train-rmspe:0.274089	eval-rmspe:0.24359
[100]	train-rmse:0.269916	eval-rmse:0.267865	train-rmspe:0.272592	eval-rmspe:0.241763
[101]	train-rmse:0.266872	eval-rmse:0.264687	train-rmspe:0.27166	eval-rmspe:0.240509
[102]	train-rmse:0.262707	eval-rmse:0.260565	train-rmspe:0.26989	eval-rmspe:0.238055
[103]	train-rmse:0.260007	eval-rmse:0.257966	train-rmspe:0.269245	eval-rmspe:0.237079
[104]	train-rmse:0.257706	eval-rmse:0.255693	train-rmspe:0.268876	eval-rmspe:0.236399
[105]	train-rmse:0.254282	eval-rmse:0.25244	train-rmspe:0.26754	eval-rmspe:0.23456

[106]	train-rmse:0.251587 -rmspe:0.233265	eval-rmse:0.249748	train-rmspe:0.266398	eval
[107]	train-rmse:0.249408 -rmspe:0.232409	eval-rmse:0.247523	train-rmspe:0.265622	eval
[108]	train-rmse:0.247197 -rmspe:0.231596	eval-rmse:0.245394	train-rmspe:0.265147	eval
[109]	train-rmse:0.244256 -rmspe:0.230017	eval-rmse:0.242637	train-rmspe:0.263787	eval
[110]	train-rmse:0.242549 -rmspe:0.229747	eval-rmse:0.240944	train-rmspe:0.263477	eval
[111]	train-rmse:0.239701 -rmspe:0.228143	eval-rmse:0.238207	train-rmspe:0.262367	eval
[112]	train-rmse:0.23834 -rmspe:0.227862	eval-rmse:0.236729	train-rmspe:0.262473	eval
[113]	train-rmse:0.23576 -rmspe:0.226217	eval-rmse:0.234121	train-rmspe:0.261478	eval
[114]	train-rmse:0.233891 -rmspe:0.225427	eval-rmse:0.232446	train-rmspe:0.260712	eval
[115]	train-rmse:0.232424 -rmspe:0.225019	eval-rmse:0.231018	train-rmspe:0.260492	eval
[116]	train-rmse:0.231009 -rmspe:0.224659	eval-rmse:0.229709	train-rmspe:0.260305	eval
[117]	train-rmse:0.228857 -rmspe:0.223545	eval-rmse:0.227789	train-rmspe:0.259311	eval
[118]	train-rmse:0.227849 -rmspe:0.223527	eval-rmse:0.227016	train-rmspe:0.259388	eval
[119]	train-rmse:0.226753 -rmspe:0.223357	eval-rmse:0.226006	train-rmspe:0.25937	eval
[120]	train-rmse:0.225842 -rmspe:0.223302	eval-rmse:0.225324	train-rmspe:0.259452	eval
[121]	train-rmse:0.224985 -rmspe:0.223282	eval-rmse:0.224511	train-rmspe:0.259691	eval
[122]	train-rmse:0.223165 -rmspe:0.222502	eval-rmse:0.222893	train-rmspe:0.258872	eval
[123]	train-rmse:0.222199 -rmspe:0.222237	eval-rmse:0.221994	train-rmspe:0.258639	eval
[124]	train-rmse:0.220739 -rmspe:0.221393	eval-rmse:0.220534	train-rmspe:0.25823	eval
[125]	train-rmse:0.220168 -rmspe:0.221561	eval-rmse:0.220022	train-rmspe:0.258448	eval
[126]	train-rmse:0.218089 -rmspe:0.219828	eval-rmse:0.218017	train-rmspe:0.257085	eval
[127]	train-rmse:0.217511 -rmspe:0.219878	eval-rmse:0.217554	train-rmspe:0.257097	eval

[128]	train-rmse:0.215121 -rmspe:0.217941	eval-rmse:0.215238	train-rmspe:0.255497	eval
[129]	train-rmse:0.214038 -rmspe:0.217421	eval-rmse:0.21428	train-rmspe:0.255109	eval
[130]	train-rmse:0.213411 -rmspe:0.217297	eval-rmse:0.21367	train-rmspe:0.255138	eval
[131]	train-rmse:0.211507 -rmspe:0.215925	eval-rmse:0.211939	train-rmspe:0.25381	eval
[132]	train-rmse:0.209553 -rmspe:0.214329	eval-rmse:0.210061	train-rmspe:0.25255	eval
[133]	train-rmse:0.20908 -rmspe:0.214325	eval-rmse:0.209624	train-rmspe:0.25265	eval
[134]	train-rmse:0.208307 -rmspe:0.214089	eval-rmse:0.208944	train-rmspe:0.252427	eval
[135]	train-rmse:0.207337 -rmspe:0.213533	eval-rmse:0.207979	train-rmspe:0.252036	eval
[136]	train-rmse:0.205554 -rmspe:0.212343	eval-rmse:0.206353	train-rmspe:0.250881	eval
[137]	train-rmse:0.205018 -rmspe:0.212083	eval-rmse:0.205876	train-rmspe:0.250005	eval
[138]	train-rmse:0.204419 -rmspe:0.211677	eval-rmse:0.205249	train-rmspe:0.249885	eval
[139]	train-rmse:0.203829 -rmspe:0.211369	eval-rmse:0.204593	train-rmspe:0.249669	eval
[140]	train-rmse:0.202093 -rmspe:0.210149	eval-rmse:0.203025	train-rmspe:0.24851	eval
[141]	train-rmse:0.201641 -rmspe:0.209907	eval-rmse:0.202598	train-rmspe:0.248442	eval
[142]	train-rmse:0.200706 -rmspe:0.209473	eval-rmse:0.20179	train-rmspe:0.24801	eval
[143]	train-rmse:0.200099 -rmspe:0.209188	eval-rmse:0.201227	train-rmspe:0.246396	eval
[144]	train-rmse:0.199472 -rmspe:0.208872	eval-rmse:0.200596	train-rmspe:0.246097	eval
[145]	train-rmse:0.198925 -rmspe:0.208558	eval-rmse:0.20011	train-rmspe:0.245716	eval
[146]	train-rmse:0.19876 -rmspe:0.208697	eval-rmse:0.199968	train-rmspe:0.245903	eval
[147]	train-rmse:0.197599 -rmspe:0.20754	eval-rmse:0.198657	train-rmspe:0.245139	eval
[148]	train-rmse:0.19716 -rmspe:0.207168	eval-rmse:0.198201	train-rmspe:0.244641	eval
[149]	train-rmse:0.196632 -rmspe:0.206846	eval-rmse:0.197637	train-rmspe:0.244497	eval

[150]	train-rmse:0.195937 -rmspe:0.206353	eval-rmse:0.196983	train-rmspe:0.24409	eval
[151]	train-rmse:0.195749 -rmspe:0.206372	eval-rmse:0.196837	train-rmspe:0.244163	eval
[152]	train-rmse:0.19548 -rmspe:0.206226	eval-rmse:0.19653	train-rmspe:0.244106	eval
[153]	train-rmse:0.193913 -rmspe:0.204646	eval-rmse:0.194967	train-rmspe:0.242919	eval
[154]	train-rmse:0.193667 -rmspe:0.204534	eval-rmse:0.1947	train-rmspe:0.242826	eval
[155]	train-rmse:0.193232 -rmspe:0.204128	eval-rmse:0.19431	train-rmspe:0.2425	eval
[156]	train-rmse:0.192346 -rmspe:0.203551	eval-rmse:0.193535	train-rmspe:0.241844	eval
[157]	train-rmse:0.192153 -rmspe:0.203565	eval-rmse:0.19338	train-rmspe:0.241864	eval
[158]	train-rmse:0.191556 -rmspe:0.203193	eval-rmse:0.192857	train-rmspe:0.240556	eval
[159]	train-rmse:0.190418 -rmspe:0.202126	eval-rmse:0.191771	train-rmspe:0.239813	eval
[160]	train-rmse:0.189753 -rmspe:0.201268	eval-rmse:0.190806	train-rmspe:0.23751	eval
[161]	train-rmse:0.188553 -rmspe:0.200123	eval-rmse:0.189725	train-rmspe:0.236309	eval
[162]	train-rmse:0.188222 -rmspe:0.199806	eval-rmse:0.189455	train-rmspe:0.234536	eval
[163]	train-rmse:0.187664 -rmspe:0.199319	eval-rmse:0.188922	train-rmspe:0.234172	eval
[164]	train-rmse:0.186737 -rmspe:0.198652	eval-rmse:0.188135	train-rmspe:0.23344	eval
[165]	train-rmse:0.186317 -rmspe:0.198353	eval-rmse:0.18769	train-rmspe:0.233156	eval
[166]	train-rmse:0.185569 -rmspe:0.197644	eval-rmse:0.186945	train-rmspe:0.232618	eval
[167]	train-rmse:0.184795 -rmspe:0.196943	eval-rmse:0.186234	train-rmspe:0.231827	eval
[168]	train-rmse:0.183682 -rmspe:0.196041	eval-rmse:0.185287	train-rmspe:0.230988	eval
[169]	train-rmse:0.1835 -rmspe:0.195972	eval-rmse:0.185235	train-rmspe:0.2309	eval
[170]	train-rmse:0.182736 -rmspe:0.195263	eval-rmse:0.184519	train-rmspe:0.230316	eval
[171]	train-rmse:0.182563 -rmspe:0.195146	eval-rmse:0.184276	train-rmspe:0.230262	eval

[172]	train-rmse:0.181437 -rmspe:0.193992	eval-rmse:0.183169	train-rmspe:0.229339	eval
[173]	train-rmse:0.180719 -rmspe:0.193234	eval-rmse:0.182438	train-rmspe:0.2288	eval
[174]	train-rmse:0.180395 -rmspe:0.193099	eval-rmse:0.18237	train-rmspe:0.228676	eval
[175]	train-rmse:0.179321 -rmspe:0.192178	eval-rmse:0.18145	train-rmspe:0.227831	eval
[176]	train-rmse:0.178967 -rmspe:0.191875	eval-rmse:0.181059	train-rmspe:0.227563	eval
[177]	train-rmse:0.178446 -rmspe:0.191536	eval-rmse:0.180662	train-rmspe:0.227194	eval
[178]	train-rmse:0.177872 -rmspe:0.191014	eval-rmse:0.180163	train-rmspe:0.226743	eval
[179]	train-rmse:0.177309 -rmspe:0.190464	eval-rmse:0.179658	train-rmspe:0.226325	eval
[180]	train-rmse:0.176795 -rmspe:0.18993	eval-rmse:0.17915	train-rmspe:0.225896	eval
[181]	train-rmse:0.176375 -rmspe:0.189614	eval-rmse:0.178801	train-rmspe:0.225598	eval
[182]	train-rmse:0.176046 -rmspe:0.18935	eval-rmse:0.178535	train-rmspe:0.22536	eval
[183]	train-rmse:0.175556 -rmspe:0.188833	eval-rmse:0.178058	train-rmspe:0.224883	eval
[184]	train-rmse:0.174873 -rmspe:0.188171	eval-rmse:0.177433	train-rmspe:0.224331	eval
[185]	train-rmse:0.174376 -rmspe:0.187805	eval-rmse:0.17704	train-rmspe:0.223941	eval
[186]	train-rmse:0.174012 -rmspe:0.187504	eval-rmse:0.176691	train-rmspe:0.223601	eval
[187]	train-rmse:0.173747 -rmspe:0.187327	eval-rmse:0.17654	train-rmspe:0.223475	eval
[188]	train-rmse:0.173234 -rmspe:0.187	eval-rmse:0.176172	train-rmspe:0.223059	eval
[189]	train-rmse:0.172689 -rmspe:0.186459	eval-rmse:0.175732	train-rmspe:0.222314	eval
[190]	train-rmse:0.172233 -rmspe:0.18599	eval-rmse:0.175295	train-rmspe:0.221852	eval
[191]	train-rmse:0.171706 -rmspe:0.18546	eval-rmse:0.174819	train-rmspe:0.221294	eval
[192]	train-rmse:0.170863 -rmspe:0.184725	eval-rmse:0.174101	train-rmspe:0.220583	eval
[193]	train-rmse:0.170702 -rmspe:0.18452	eval-rmse:0.173943	train-rmspe:0.220289	eval

[194]	train-rmse:0.170095	eval-rmse:0.173438	train-rmspe:0.219762	eval-rmspe:0.184045
[195]	train-rmse:0.169746	eval-rmse:0.173145	train-rmspe:0.219468	eval-rmspe:0.18372
[196]	train-rmse:0.168961	eval-rmse:0.172522	train-rmspe:0.218721	eval-rmspe:0.183119
[197]	train-rmse:0.168501	eval-rmse:0.172057	train-rmspe:0.218373	eval-rmspe:0.182645
[198]	train-rmse:0.168214	eval-rmse:0.171729	train-rmspe:0.218131	eval-rmspe:0.18243
[199]	train-rmse:0.168063	eval-rmse:0.171633	train-rmspe:0.21802	eval-rmspe:0.182438
[200]	train-rmse:0.167682	eval-rmse:0.171292	train-rmspe:0.215948	eval-rmspe:0.182112
[201]	train-rmse:0.167352	eval-rmse:0.171013	train-rmspe:0.215667	eval-rmspe:0.181793
[202]	train-rmse:0.166908	eval-rmse:0.17068	train-rmspe:0.215356	eval-rmspe:0.181446
[203]	train-rmse:0.166654	eval-rmse:0.170484	train-rmspe:0.215164	eval-rmspe:0.181317
[204]	train-rmse:0.166055	eval-rmse:0.169995	train-rmspe:0.214645	eval-rmspe:0.180815
[205]	train-rmse:0.165743	eval-rmse:0.169681	train-rmspe:0.214356	eval-rmspe:0.180457
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[207]	train-rmse:0.164364	eval-rmse:0.168569	train-rmspe:0.213047	eval-rmspe:0.179231
[208]	train-rmse:0.163667	eval-rmse:0.168026	train-rmspe:0.212341	eval-rmspe:0.178647
[209]	train-rmse:0.163565	eval-rmse:0.167827	train-rmspe:0.212205	eval-rmspe:0.178326
[210]	train-rmse:0.163024	eval-rmse:0.167349	train-rmspe:0.211706	eval-rmspe:0.177754
[211]	train-rmse:0.162274	eval-rmse:0.1666	train-rmspe:0.211025	eval-rmspe:0.176845
[212]	train-rmse:0.162088	eval-rmse:0.166433	train-rmspe:0.210865	eval-rmspe:0.176686
[213]	train-rmse:0.16192	eval-rmse:0.166332	train-rmspe:0.210718	eval-rmspe:0.176564
[214]	train-rmse:0.161335	eval-rmse:0.165773	train-rmspe:0.210168	eval-rmspe:0.175843
[215]	train-rmse:0.160623	eval-rmse:0.165456	train-rmspe:0.209578	eval-rmspe:0.175556

[216]	train-rmse:0.160394 -rmspe:0.175404	eval-rmse:0.165328	train-rmspe:0.209241	eval
[217]	train-rmse:0.160073 -rmspe:0.175077	eval-rmse:0.165037	train-rmspe:0.208947	eval
[218]	train-rmse:0.159345 -rmspe:0.174433	eval-rmse:0.164439	train-rmspe:0.208242	eval
[219]	train-rmse:0.158876 -rmspe:0.173986	eval-rmse:0.163975	train-rmspe:0.207855	eval
[220]	train-rmse:0.158638 -rmspe:0.17377	eval-rmse:0.163736	train-rmspe:0.207582	eval
[221]	train-rmse:0.157944 -rmspe:0.173147	eval-rmse:0.163188	train-rmspe:0.206893	eval
[222]	train-rmse:0.157681 -rmspe:0.172795	eval-rmse:0.162891	train-rmspe:0.206649	eval
[223]	train-rmse:0.157526 -rmspe:0.172626	eval-rmse:0.162688	train-rmspe:0.206496	eval
[224]	train-rmse:0.15705 -rmspe:0.172146	eval-rmse:0.162267	train-rmspe:0.20609	eval
[225]	train-rmse:0.156726 -rmspe:0.171849	eval-rmse:0.16198	train-rmspe:0.205794	eval
[226]	train-rmse:0.156399 -rmspe:0.171512	eval-rmse:0.161679	train-rmspe:0.20549	eval
[227]	train-rmse:0.156127 -rmspe:0.171263	eval-rmse:0.161449	train-rmspe:0.205274	eval
[228]	train-rmse:0.155936 -rmspe:0.171142	eval-rmse:0.161347	train-rmspe:0.205098	eval
[229]	train-rmse:0.155449 -rmspe:0.170635	eval-rmse:0.160926	train-rmspe:0.204662	eval
[230]	train-rmse:0.154952 -rmspe:0.170046	eval-rmse:0.160475	train-rmspe:0.204195	eval
[231]	train-rmse:0.154431 -rmspe:0.169469	eval-rmse:0.160043	train-rmspe:0.203622	eval
[232]	train-rmse:0.154228 -rmspe:0.169267	eval-rmse:0.159887	train-rmspe:0.203392	eval
[233]	train-rmse:0.154005 -rmspe:0.169088	eval-rmse:0.159698	train-rmspe:0.203178	eval
[234]	train-rmse:0.15381 -rmspe:0.168865	eval-rmse:0.159443	train-rmspe:0.203004	eval
[235]	train-rmse:0.153492 -rmspe:0.168544	eval-rmse:0.159145	train-rmspe:0.20273	eval
[236]	train-rmse:0.153349 -rmspe:0.168487	eval-rmse:0.159116	train-rmspe:0.20261	eval
[237]	train-rmse:0.152561 -rmspe:0.167672	eval-rmse:0.158472	train-rmspe:0.20183	eval

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[239]	train-rmse:0.151991	eval-rmse:0.157923	train-rmspe:0.201276	eval-rmspe:0.167087
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[385]	train-rmse:0.117855	eval-rmse:0.128332	train-rmspe:0.155857	eval-rmspe:0.134061
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[387]	train-rmse:0.117598	eval-rmse:0.128126	train-rmspe:0.155596	eval-rmspe:0.133855
[388]	train-rmse:0.117378	eval-rmse:0.127988	train-rmspe:0.155366	eval-rmspe:0.133698
[389]	train-rmse:0.117237	eval-rmse:0.12786	train-rmspe:0.155243	eval-rmspe:0.133554
[390]	train-rmse:0.117176	eval-rmse:0.12779	train-rmspe:0.155164	eval-rmspe:0.13345
[391]	train-rmse:0.117054	eval-rmse:0.127707	train-rmspe:0.155066	eval-rmspe:0.133345

[392]	train-rmse:0.116902	eval-rmse:0.127591	train-rmspe:0.154936	eval-rmspe:0.133197
[393]	train-rmse:0.116822	eval-rmse:0.1275	train-rmspe:0.154868	eval-rmspe:0.133095
[394]	train-rmse:0.116717	eval-rmse:0.127334	train-rmspe:0.154779	eval-rmspe:0.132933
[395]	train-rmse:0.11666	eval-rmse:0.127303	train-rmspe:0.154746	eval-rmspe:0.132903
[396]	train-rmse:0.116554	eval-rmse:0.127202	train-rmspe:0.154649	eval-rmspe:0.132797
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[399]	train-rmse:0.115973	eval-rmse:0.126739	train-rmspe:0.15401	eval-rmspe:0.132275
[400]	train-rmse:0.115699	eval-rmse:0.126554	train-rmspe:0.153699	eval-rmspe:0.132058
[401]	train-rmse:0.115545	eval-rmse:0.126347	train-rmspe:0.153534	eval-rmspe:0.131821
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[405]	train-rmse:0.115141	eval-rmse:0.125993	train-rmspe:0.15314	eval-rmspe:0.131379
[406]	train-rmse:0.115007	eval-rmse:0.125899	train-rmspe:0.150654	eval-rmspe:0.131266
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[408]	train-rmse:0.114779	eval-rmse:0.125702	train-rmspe:0.150446	eval-rmspe:0.131033
[409]	train-rmse:0.114677	eval-rmse:0.125655	train-rmspe:0.150339	eval-rmspe:0.13096
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[411]	train-rmse:0.114453	eval-rmse:0.125495	train-rmspe:0.150128	eval-rmspe:0.130789
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[415]	train-rmse:0.113729	eval-rmse:0.1249	train-rmspe:0.149475	eval-rmspe:0.13012
[416]	train-rmse:0.113641	eval-rmse:0.124896	train-rmspe:0.149388	eval-rmspe:0.13008
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[426]	train-rmse:0.112554	eval-rmse:0.124011	train-rmspe:0.148387	eval-rmspe:0.129022
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[428]	train-rmse:0.112291	eval-rmse:0.123822	train-rmspe:0.148182	eval-rmspe:0.128823
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[459]	train-rmse:0.109631 -rmspe:0.126339	eval-rmse:0.121673	train-rmspe:0.143996	eval
[460]	train-rmse:0.109544 -rmspe:0.126271	eval-rmse:0.121615	train-rmspe:0.143913	eval
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[462]	train-rmse:0.109421 -rmspe:0.126132	eval-rmse:0.121517	train-rmspe:0.143801	eval
[463]	train-rmse:0.109376 -rmspe:0.126092	eval-rmse:0.121474	train-rmspe:0.142848	eval
[464]	train-rmse:0.109251 -rmspe:0.126008	eval-rmse:0.121388	train-rmspe:0.14274	eval
[465]	train-rmse:0.109131 -rmspe:0.125906	eval-rmse:0.121299	train-rmspe:0.142633	eval
[466]	train-rmse:0.109072 -rmspe:0.125862	eval-rmse:0.121263	train-rmspe:0.142584	eval
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[469]	train-rmse:0.108824 -rmspe:0.125606	eval-rmse:0.121056	train-rmspe:0.142333	eval
[470]	train-rmse:0.108698 -rmspe:0.125464	eval-rmse:0.120943	train-rmspe:0.142219	eval
[471]	train-rmse:0.108652 -rmspe:0.125407	eval-rmse:0.120889	train-rmspe:0.142165	eval
[472]	train-rmse:0.108507 -rmspe:0.125244	eval-rmse:0.120774	train-rmspe:0.14203	eval
[473]	train-rmse:0.108423 -rmspe:0.125151	eval-rmse:0.12069	train-rmspe:0.141898	eval
[474]	train-rmse:0.108382 -rmspe:0.125139	eval-rmse:0.12068	train-rmspe:0.141124	eval
[475]	train-rmse:0.108332 -rmspe:0.125087	eval-rmse:0.120631	train-rmspe:0.141083	eval
[476]	train-rmse:0.108226 -rmspe:0.125009	eval-rmse:0.120565	train-rmspe:0.140951	eval
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[478]	train-rmse:0.10801 -rmspe:0.124822	eval-rmse:0.120404	train-rmspe:0.140751	eval
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[539]	train-rmse:0.103278 -rmspe:0.120274	eval-rmse:0.1163	train-rmspe:0.135567	eval
[540]	train-rmse:0.103243 -rmspe:0.120253	eval-rmse:0.11628	train-rmspe:0.135537	eval
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[543]	train-rmse:0.103005 -rmspe:0.120083	eval-rmse:0.116108	train-rmspe:0.13502	eval
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[878]	train-rmse:0.088622	eval-rmse:0.106625	train-rmspe:0.110356	eval-rmspe:0.109903
[879]	train-rmse:0.088576	eval-rmse:0.106567	train-rmspe:0.110259	eval-rmspe:0.109858
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[903]	train-rmse:0.087965 -rmspe:0.109517	eval-rmse:0.106226	train-rmspe:0.109485	eval
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	-rmspe:0.107636			
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	-rmspe:0.107665			
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	-rmspe:0.107639			
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	-rmspe:0.1075			

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[1198]	train-rmse:0.081551 -rmspe:0.106055	eval-rmse:0.102964	train-rmspe:0.096821	eval
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[1201]	train-rmse:0.081508 -rmspe:0.106019	eval-rmse:0.102925	train-rmspe:0.096776	eval
[1202]	train-rmse:0.08148 -rmspe:0.106004	eval-rmse:0.102907	train-rmspe:0.096745	eval
[1203]	train-rmse:0.081471 -rmspe:0.105991	eval-rmse:0.102896	train-rmspe:0.096737	eval
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[1207]	train-rmse:0.081398 -rmspe:0.105958	eval-rmse:0.102863	train-rmspe:0.096662	eval
[1208]	train-rmse:0.081386 -rmspe:0.105948	eval-rmse:0.102853	train-rmspe:0.096652	eval
[1209]	train-rmse:0.081363 -rmspe:0.10594	eval-rmse:0.102846	train-rmspe:0.096628	eval
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[1212]	train-rmse:0.081314 -rmspe:0.105924	eval-rmse:0.102828	train-rmspe:0.096571	eval
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[1219]	train-rmse:0.081212 -rmspe:0.105883	eval-rmse:0.102792	train-rmspe:0.096443	eval
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[1222]	train-rmse:0.081166 -rmspe:0.105882	eval-rmse:0.102784	train-rmspe:0.096379	eval
[1223]	train-rmse:0.081143 -rmspe:0.10587	eval-rmse:0.102771	train-rmspe:0.096348	eval
[1224]	train-rmse:0.081127 -rmspe:0.105864	eval-rmse:0.102763	train-rmspe:0.096329	eval
[1225]	train-rmse:0.081102 -rmspe:0.105851	eval-rmse:0.102749	train-rmspe:0.096286	eval
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[1229]	train-rmse:0.081057 -rmspe:0.105807	eval-rmse:0.102712	train-rmspe:0.096238	eval
[1230]	train-rmse:0.08104 -rmspe:0.105795	eval-rmse:0.102701	train-rmspe:0.096213	eval
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[1232]	train-rmse:0.081 -rmspe:0.105787	eval-rmse:0.10269	train-rmspe:0.096168	eval
[1233]	train-rmse:0.080996 -rmspe:0.105783	eval-rmse:0.102688	train-rmspe:0.096164	eval
[1234]	train-rmse:0.080979 -rmspe:0.105773	eval-rmse:0.102679	train-rmspe:0.096148	eval
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[1237]	train-rmse:0.08094 -rmspe:0.105743	eval-rmse:0.102659	train-rmspe:0.09588	eval
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[1244]	train-rmse:0.080825 -rmspe:0.105692	eval-rmse:0.10261	train-rmspe:0.095744	eval
[1245]	train-rmse:0.080812 -rmspe:0.105697	eval-rmse:0.102612	train-rmspe:0.095725	eval
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[1255]	train-rmse:0.080668 -rmspe:0.105688	eval-rmse:0.102592	train-rmspe:0.095558	eval
[1256]	train-rmse:0.080645 -rmspe:0.105657	eval-rmse:0.10256	train-rmspe:0.095532	eval
[1257]	train-rmse:0.080625 -rmspe:0.105663	eval-rmse:0.102558	train-rmspe:0.095513	eval
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[1265]	train-rmse:0.080504 -rmspe:0.105593	eval-rmse:0.102495	train-rmspe:0.095309	eval
[1266]	train-rmse:0.080495 -rmspe:0.105591	eval-rmse:0.102492	train-rmspe:0.095296	eval
[1267]	train-rmse:0.08047 -rmspe:0.1056	eval-rmse:0.102496	train-rmspe:0.095271	eval
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[1299]	train-rmse:0.07995	eval-rmse:0.102298	train-rmspe:0.09473	eval-rmspe:0.105393
[1300]	train-rmse:0.079935	eval-rmse:0.102286	train-rmspe:0.09471	eval-rmspe:0.10538
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[1302]	train-rmse:0.079887	eval-rmse:0.102262	train-rmspe:0.094632	eval-rmspe:0.105361
[1303]	train-rmse:0.079856	eval-rmse:0.102246	train-rmspe:0.094598	eval-rmspe:0.105344
[1304]	train-rmse:0.079841	eval-rmse:0.102235	train-rmspe:0.094581	eval-rmspe:0.105332
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[1314]	train-rmse:0.079684	eval-rmse:0.102139	train-rmspe:0.094504	eval-rmspe:0.105243
[1315]	train-rmse:0.079673	eval-rmse:0.102132	train-rmspe:0.094492	eval-rmspe:0.105237

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	-rmspe:0.105208			
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[1331]	train-rmse:0.079432	eval-rmse:0.102066	train-rmspe:0.094187	eval
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	-rmspe:0.105158			
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	-rmspe:0.105159			
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	-rmspe:0.105151			
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	-rmspe:0.105144			
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[1345]	train-rmse:0.079187 -rmspe:0.105062	eval-rmse:0.101969	train-rmspe:0.093769	eval
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[1353]	train-rmse:0.07908 -rmspe:0.104999	eval-rmse:0.101917	train-rmspe:0.093635	eval
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[1355]	train-rmse:0.079068 -rmspe:0.10499	eval-rmse:0.10191	train-rmspe:0.093622	eval
[1356]	train-rmse:0.079054 -rmspe:0.104983	eval-rmse:0.101903	train-rmspe:0.093604	eval
[1357]	train-rmse:0.079037 -rmspe:0.104972	eval-rmse:0.101894	train-rmspe:0.093588	eval
[1358]	train-rmse:0.079024 -rmspe:0.104966	eval-rmse:0.101886	train-rmspe:0.093571	eval
[1359]	train-rmse:0.078999 -rmspe:0.10496	eval-rmse:0.101882	train-rmspe:0.093463	eval

[1360]	train-rmse:0.078983	eval-rmse:0.101885	train-rmspe:0.093448	eval-rmspe:0.104959
[1361]	train-rmse:0.07896	eval-rmse:0.101876	train-rmspe:0.093425	eval-rmspe:0.104953
[1362]	train-rmse:0.078942	eval-rmse:0.101872	train-rmspe:0.093407	eval-rmspe:0.104949
[1363]	train-rmse:0.078913	eval-rmse:0.101865	train-rmspe:0.093363	eval-rmspe:0.104948
[1364]	train-rmse:0.078893	eval-rmse:0.101855	train-rmspe:0.093341	eval-rmspe:0.104937
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[1366]	train-rmse:0.07887	eval-rmse:0.101845	train-rmspe:0.093317	eval-rmspe:0.104925
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[1368]	train-rmse:0.078849	eval-rmse:0.101842	train-rmspe:0.093291	eval-rmspe:0.104923
[1369]	train-rmse:0.078836	eval-rmse:0.101839	train-rmspe:0.093275	eval-rmspe:0.104919
[1370]	train-rmse:0.07882	eval-rmse:0.101836	train-rmspe:0.093256	eval-rmspe:0.104914
[1371]	train-rmse:0.078809	eval-rmse:0.101829	train-rmspe:0.093246	eval-rmspe:0.104903
[1372]	train-rmse:0.078789	eval-rmse:0.101821	train-rmspe:0.093234	eval-rmspe:0.104896
[1373]	train-rmse:0.078776	eval-rmse:0.101813	train-rmspe:0.093214	eval-rmspe:0.104888
[1374]	train-rmse:0.078767	eval-rmse:0.101816	train-rmspe:0.093206	eval-rmspe:0.104891
[1375]	train-rmse:0.078755	eval-rmse:0.101813	train-rmspe:0.093188	eval-rmspe:0.104888
[1376]	train-rmse:0.078745	eval-rmse:0.101811	train-rmspe:0.093131	eval-rmspe:0.104888
[1377]	train-rmse:0.078738	eval-rmse:0.101807	train-rmspe:0.093125	eval-rmspe:0.104882
[1378]	train-rmse:0.078729	eval-rmse:0.101802	train-rmspe:0.093116	eval-rmspe:0.104872
[1379]	train-rmse:0.078713	eval-rmse:0.101795	train-rmspe:0.093101	eval-rmspe:0.104862
[1380]	train-rmse:0.078704	eval-rmse:0.101791	train-rmspe:0.093089	eval-rmspe:0.104857
[1381]	train-rmse:0.07869	eval-rmse:0.101784	train-rmspe:0.093073	eval-rmspe:0.104849

[1382]	train-rmse:0.078673	eval-rmse:0.101778	train-rmspe:0.093048	eval-rmspe:0.104844
[1383]	train-rmse:0.07866	eval-rmse:0.101762	train-rmspe:0.09303	eval-rmspe:0.104829
[1384]	train-rmse:0.078638	eval-rmse:0.101762	train-rmspe:0.093008	eval-rmspe:0.10483
[1385]	train-rmse:0.078617	eval-rmse:0.10175	train-rmspe:0.092988	eval-rmspe:0.104818
[1386]	train-rmse:0.078593	eval-rmse:0.101742	train-rmspe:0.092957	eval-rmspe:0.104811
[1387]	train-rmse:0.078578	eval-rmse:0.101731	train-rmspe:0.092942	eval-rmspe:0.1048
[1388]	train-rmse:0.07856	eval-rmse:0.101721	train-rmspe:0.092926	eval-rmspe:0.104788
[1389]	train-rmse:0.078553	eval-rmse:0.101724	train-rmspe:0.09292	eval-rmspe:0.104795
[1390]	train-rmse:0.078542	eval-rmse:0.101727	train-rmspe:0.092906	eval-rmspe:0.104798
[1391]	train-rmse:0.078532	eval-rmse:0.101729	train-rmspe:0.092897	eval-rmspe:0.1048
[1392]	train-rmse:0.078509	eval-rmse:0.101723	train-rmspe:0.092864	eval-rmspe:0.104793
[1393]	train-rmse:0.078497	eval-rmse:0.101715	train-rmspe:0.09285	eval-rmspe:0.104787
[1394]	train-rmse:0.078484	eval-rmse:0.101714	train-rmspe:0.092832	eval-rmspe:0.104788
[1395]	train-rmse:0.078477	eval-rmse:0.101708	train-rmspe:0.092826	eval-rmspe:0.104783
[1396]	train-rmse:0.078465	eval-rmse:0.101691	train-rmspe:0.092814	eval-rmspe:0.10477
[1397]	train-rmse:0.078448	eval-rmse:0.101677	train-rmspe:0.092789	eval-rmspe:0.104761
[1398]	train-rmse:0.078432	eval-rmse:0.10167	train-rmspe:0.092773	eval-rmspe:0.104755
[1399]	train-rmse:0.078428	eval-rmse:0.10167	train-rmspe:0.092769	eval-rmspe:0.104755
[1400]	train-rmse:0.078408	eval-rmse:0.101666	train-rmspe:0.092746	eval-rmspe:0.104749
[1401]	train-rmse:0.078388	eval-rmse:0.101652	train-rmspe:0.092718	eval-rmspe:0.104738
[1402]	train-rmse:0.078374	eval-rmse:0.101651	train-rmspe:0.092703	eval-rmspe:0.104737
[1403]	train-rmse:0.078361	eval-rmse:0.101638	train-rmspe:0.092686	eval-rmspe:0.104723

[1404]	train-rmse:0.078346	eval-rmse:0.101633	train-rmspe:0.092672	eval-rmspe:0.104719
[1405]	train-rmse:0.078328	eval-rmse:0.10163	train-rmspe:0.092651	eval-rmspe:0.104711
[1406]	train-rmse:0.078315	eval-rmse:0.101628	train-rmspe:0.092635	eval-rmspe:0.10471
[1407]	train-rmse:0.078309	eval-rmse:0.101619	train-rmspe:0.092628	eval-rmspe:0.104704
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[1413]	train-rmse:0.078234	eval-rmse:0.101593	train-rmspe:0.092534	eval-rmspe:0.104685
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[1429]	train-rmse:0.078039	eval-rmse:0.10151	train-rmspe:0.092152	eval-rmspe:0.104616
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[1451]	train-rmse:0.077718	eval-rmse:0.101402	train-rmspe:0.091781	eval-rmspe:0.104504
[1452]	train-rmse:0.077696	eval-rmse:0.10139	train-rmspe:0.091742	eval-rmspe:0.104496
[1453]	train-rmse:0.07767	eval-rmse:0.10138	train-rmspe:0.091713	eval-rmspe:0.104483
[1454]	train-rmse:0.077661	eval-rmse:0.101379	train-rmspe:0.091703	eval-rmspe:0.104483
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[1459]	train-rmse:0.077588	eval-rmse:0.101349	train-rmspe:0.091486	eval-rmspe:0.104453
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	-rmspe:0.104393			
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	-rmspe:0.10437			
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	-rmspe:0.104355			
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	-rmspe:0.104344			
[1488]	train-rmse:0.077183	eval-rmse:0.101237	train-rmspe:0.089932	eval
	-rmspe:0.104322			
[1489]	train-rmse:0.077169	eval-rmse:0.10123	train-rmspe:0.089915	eval
	-rmspe:0.104314			
[1490]	train-rmse:0.077153	eval-rmse:0.101231	train-rmspe:0.089863	eval
	-rmspe:0.104311			
[1491]	train-rmse:0.077147	eval-rmse:0.101223	train-rmspe:0.089859	eval
	-rmspe:0.104308			

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[1495]	train-rmse:0.077082 -rmspe:0.10428	eval-rmse:0.101196	train-rmspe:0.089101	eval
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[1497]	train-rmse:0.077062 -rmspe:0.104259	eval-rmse:0.101182	train-rmspe:0.089079	eval
[1498]	train-rmse:0.077043 -rmspe:0.104252	eval-rmse:0.101175	train-rmspe:0.089057	eval
[1499]	train-rmse:0.077028 -rmspe:0.104252	eval-rmse:0.101175	train-rmspe:0.089041	eval
[1500]	train-rmse:0.077005 -rmspe:0.104246	eval-rmse:0.101169	train-rmspe:0.089013	eval
[1501]	train-rmse:0.076994 -rmspe:0.104242	eval-rmse:0.101166	train-rmspe:0.088998	eval
[1502]	train-rmse:0.076982 -rmspe:0.104246	eval-rmse:0.101168	train-rmspe:0.08898	eval
[1503]	train-rmse:0.07697 -rmspe:0.104251	eval-rmse:0.101169	train-rmspe:0.088968	eval
[1504]	train-rmse:0.076954 -rmspe:0.104237	eval-rmse:0.101157	train-rmspe:0.088952	eval
[1505]	train-rmse:0.076944 -rmspe:0.104232	eval-rmse:0.101154	train-rmspe:0.08894	eval
[1506]	train-rmse:0.076925 -rmspe:0.104231	eval-rmse:0.101154	train-rmspe:0.088919	eval
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[1508]	train-rmse:0.076887 -rmspe:0.104217	eval-rmse:0.10114	train-rmspe:0.088856	eval
[1509]	train-rmse:0.076873 -rmspe:0.10421	eval-rmse:0.101131	train-rmspe:0.08884	eval
[1510]	train-rmse:0.076862 -rmspe:0.104211	eval-rmse:0.101131	train-rmspe:0.088819	eval
[1511]	train-rmse:0.076852 -rmspe:0.104206	eval-rmse:0.101125	train-rmspe:0.088806	eval
[1512]	train-rmse:0.076845 -rmspe:0.104201	eval-rmse:0.101124	train-rmspe:0.0888	eval
[1513]	train-rmse:0.076833 -rmspe:0.104195	eval-rmse:0.101118	train-rmspe:0.088786	eval

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[1516]	train-rmse:0.076794 -rmspe:0.104166	eval-rmse:0.101078	train-rmspe:0.088745	eval
[1517]	train-rmse:0.076779 -rmspe:0.104162	eval-rmse:0.101073	train-rmspe:0.088729	eval
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[1519]	train-rmse:0.076761 -rmspe:0.10415	eval-rmse:0.101064	train-rmspe:0.088698	eval
[1520]	train-rmse:0.076739 -rmspe:0.104141	eval-rmse:0.10106	train-rmspe:0.088667	eval
[1521]	train-rmse:0.076731 -rmspe:0.10414	eval-rmse:0.101056	train-rmspe:0.088657	eval
[1522]	train-rmse:0.076714 -rmspe:0.104133	eval-rmse:0.101051	train-rmspe:0.088636	eval
[1523]	train-rmse:0.076695 -rmspe:0.104126	eval-rmse:0.101042	train-rmspe:0.088605	eval
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[1618]	train-rmse:0.07542 -rmspe:0.103677	eval-rmse:0.100586	train-rmspe:0.086463	eval
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[1622]	train-rmse:0.07537 -rmspe:0.103675	eval-rmse:0.10059	train-rmspe:0.086332	eval
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[1677]	train-rmse:0.074692	eval-rmse:0.100457	train-rmspe:0.085015	eval
	-rmspe:0.103489			
[1678]	train-rmse:0.074671	eval-rmse:0.100455	train-rmspe:0.084594	eval
	-rmspe:0.103484			
[1679]	train-rmse:0.074667	eval-rmse:0.100455	train-rmspe:0.08459	eval
	-rmspe:0.103484			
[1680]	train-rmse:0.074656	eval-rmse:0.100449	train-rmspe:0.084576	eval
	-rmspe:0.103479			
[1681]	train-rmse:0.074646	eval-rmse:0.100445	train-rmspe:0.084566	eval
	-rmspe:0.103474			
[1682]	train-rmse:0.074638	eval-rmse:0.100441	train-rmspe:0.084555	eval
	-rmspe:0.103468			
[1683]	train-rmse:0.074632	eval-rmse:0.100439	train-rmspe:0.084547	eval
	-rmspe:0.103467			
[1684]	train-rmse:0.074614	eval-rmse:0.100435	train-rmspe:0.084521	eval
	-rmspe:0.103462			
[1685]	train-rmse:0.0746	eval-rmse:0.100429	train-rmspe:0.084505	eval
	-rmspe:0.103454			
[1686]	train-rmse:0.074592	eval-rmse:0.100408	train-rmspe:0.084491	eval
	-rmspe:0.103435			
[1687]	train-rmse:0.074583	eval-rmse:0.100407	train-rmspe:0.08448	eval
	-rmspe:0.103435			
[1688]	train-rmse:0.074578	eval-rmse:0.100405	train-rmspe:0.084475	eval
	-rmspe:0.103433			
[1689]	train-rmse:0.074566	eval-rmse:0.100401	train-rmspe:0.084466	eval
	-rmspe:0.10343			

[1690]	train-rmse:0.074557	eval-rmse:0.100397	train-rmspe:0.084455	eval
	-rmspe:0.103437			
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	-rmspe:0.103435			
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	-rmspe:0.103429			
[1693]	train-rmse:0.074508	eval-rmse:0.100387	train-rmspe:0.084395	eval
	-rmspe:0.103422			
[1694]	train-rmse:0.074495	eval-rmse:0.100386	train-rmspe:0.084379	eval
	-rmspe:0.103411			
[1695]	train-rmse:0.074486	eval-rmse:0.100389	train-rmspe:0.084371	eval
	-rmspe:0.103414			
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	-rmspe:0.103409			
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	-rmspe:0.103408			
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	-rmspe:0.103404			
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	-rmspe:0.103403			
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	-rmspe:0.103404			
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[1707]	train-rmse:0.074341	eval-rmse:0.100353	train-rmspe:0.084134	eval
	-rmspe:0.103376			
[1708]	train-rmse:0.074322	eval-rmse:0.100346	train-rmspe:0.083783	eval
	-rmspe:0.103367			
[1709]	train-rmse:0.074308	eval-rmse:0.10035	train-rmspe:0.083764	eval
	-rmspe:0.103373			
[1710]	train-rmse:0.074296	eval-rmse:0.100351	train-rmspe:0.083742	eval
	-rmspe:0.103373			
[1711]	train-rmse:0.074282	eval-rmse:0.100348	train-rmspe:0.083719	eval
	-rmspe:0.103369			

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[1713]	train-rmse:0.074263	eval-rmse:0.100339	train-rmspe:0.083692	eval-rmspe:0.10336
[1714]	train-rmse:0.074255	eval-rmse:0.100333	train-rmspe:0.083683	eval-rmspe:0.103358
[1715]	train-rmse:0.074241	eval-rmse:0.100327	train-rmspe:0.083666	eval-rmspe:0.103351
[1716]	train-rmse:0.07423	eval-rmse:0.100324	train-rmspe:0.083654	eval-rmspe:0.103347
[1717]	train-rmse:0.074221	eval-rmse:0.100327	train-rmspe:0.083644	eval-rmspe:0.10335
[1718]	train-rmse:0.074212	eval-rmse:0.100325	train-rmspe:0.083627	eval-rmspe:0.103348
[1719]	train-rmse:0.074204	eval-rmse:0.100327	train-rmspe:0.083619	eval-rmspe:0.103351
[1720]	train-rmse:0.074194	eval-rmse:0.100327	train-rmspe:0.083609	eval-rmspe:0.103353
[1721]	train-rmse:0.074184	eval-rmse:0.100323	train-rmspe:0.083599	eval-rmspe:0.103349
[1722]	train-rmse:0.074172	eval-rmse:0.100322	train-rmspe:0.083587	eval-rmspe:0.103345
[1723]	train-rmse:0.074156	eval-rmse:0.100326	train-rmspe:0.083567	eval-rmspe:0.103353
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[1725]	train-rmse:0.074126	eval-rmse:0.100321	train-rmspe:0.083536	eval-rmspe:0.10335
[1726]	train-rmse:0.074111	eval-rmse:0.100317	train-rmspe:0.083522	eval-rmspe:0.103346
[1727]	train-rmse:0.074101	eval-rmse:0.100313	train-rmspe:0.083326	eval-rmspe:0.10334
[1728]	train-rmse:0.074094	eval-rmse:0.100309	train-rmspe:0.083319	eval-rmspe:0.103336
[1729]	train-rmse:0.074081	eval-rmse:0.100299	train-rmspe:0.083307	eval-rmspe:0.103326
[1730]	train-rmse:0.074067	eval-rmse:0.100297	train-rmspe:0.083286	eval-rmspe:0.103324
[1731]	train-rmse:0.074052	eval-rmse:0.100289	train-rmspe:0.083266	eval-rmspe:0.103309
[1732]	train-rmse:0.074043	eval-rmse:0.100277	train-rmspe:0.083256	eval-rmspe:0.103296
[1733]	train-rmse:0.074025	eval-rmse:0.100268	train-rmspe:0.083238	eval-rmspe:0.103288

[1734]	train-rmse:0.074008	eval-rmse:0.100268	train-rmspe:0.083214	eval-rmspe:0.103288
[1735]	train-rmse:0.073997	eval-rmse:0.100266	train-rmspe:0.083207	eval-rmspe:0.103287
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[1737]	train-rmse:0.073982	eval-rmse:0.100262	train-rmspe:0.083183	eval-rmspe:0.103284
[1738]	train-rmse:0.073972	eval-rmse:0.100259	train-rmspe:0.083173	eval-rmspe:0.10328
[1739]	train-rmse:0.073957	eval-rmse:0.100249	train-rmspe:0.083153	eval-rmspe:0.103271
[1740]	train-rmse:0.073947	eval-rmse:0.100248	train-rmspe:0.083141	eval-rmspe:0.103269
[1741]	train-rmse:0.073936	eval-rmse:0.100249	train-rmspe:0.083127	eval-rmspe:0.103272
[1742]	train-rmse:0.073924	eval-rmse:0.100246	train-rmspe:0.083107	eval-rmspe:0.103269
[1743]	train-rmse:0.073916	eval-rmse:0.100247	train-rmspe:0.083098	eval-rmspe:0.103267
[1744]	train-rmse:0.0739	eval-rmse:0.100251	train-rmspe:0.083073	eval-rmspe:0.103271
[1745]	train-rmse:0.073888	eval-rmse:0.100244	train-rmspe:0.083061	eval-rmspe:0.103262
[1746]	train-rmse:0.073871	eval-rmse:0.100242	train-rmspe:0.08304	eval-rmspe:0.103265
[1747]	train-rmse:0.073857	eval-rmse:0.100238	train-rmspe:0.083023	eval-rmspe:0.103261
[1748]	train-rmse:0.073846	eval-rmse:0.100239	train-rmspe:0.08301	eval-rmspe:0.103258
[1749]	train-rmse:0.073829	eval-rmse:0.10024	train-rmspe:0.082991	eval-rmspe:0.103263
[1750]	train-rmse:0.073821	eval-rmse:0.100233	train-rmspe:0.082983	eval-rmspe:0.103256
[1751]	train-rmse:0.073812	eval-rmse:0.100231	train-rmspe:0.082973	eval-rmspe:0.103253
[1752]	train-rmse:0.073801	eval-rmse:0.100232	train-rmspe:0.08296	eval-rmspe:0.103253
[1753]	train-rmse:0.073796	eval-rmse:0.100228	train-rmspe:0.082954	eval-rmspe:0.103246
[1754]	train-rmse:0.07378	eval-rmse:0.100236	train-rmspe:0.082926	eval-rmspe:0.103258
[1755]	train-rmse:0.073763	eval-rmse:0.100231	train-rmspe:0.082876	eval-rmspe:0.103253

[1756]	train-rmse:0.073757 -rmspe:0.10325	eval-rmse:0.100228	train-rmspe:0.082869	eval
[1757]	train-rmse:0.073743 -rmspe:0.103245	eval-rmse:0.100224	train-rmspe:0.08285	eval
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[1761]	train-rmse:0.073697 -rmspe:0.103206	eval-rmse:0.100201	train-rmspe:0.082729	eval
[1762]	train-rmse:0.073689 -rmspe:0.103192	eval-rmse:0.100192	train-rmspe:0.082721	eval
[1763]	train-rmse:0.073677 -rmspe:0.103199	eval-rmse:0.100194	train-rmspe:0.082709	eval
[1764]	train-rmse:0.073666 -rmspe:0.103194	eval-rmse:0.10019	train-rmspe:0.082698	eval
[1765]	train-rmse:0.073655 -rmspe:0.103189	eval-rmse:0.100185	train-rmspe:0.082674	eval
[1766]	train-rmse:0.073647 -rmspe:0.103189	eval-rmse:0.100186	train-rmspe:0.082663	eval
[1767]	train-rmse:0.073636 -rmspe:0.103194	eval-rmse:0.100191	train-rmspe:0.082651	eval
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[1769]	train-rmse:0.073624 -rmspe:0.103192	eval-rmse:0.100188	train-rmspe:0.082638	eval
[1770]	train-rmse:0.073611 -rmspe:0.103184	eval-rmse:0.100183	train-rmspe:0.082624	eval
[1771]	train-rmse:0.073599 -rmspe:0.103181	eval-rmse:0.100181	train-rmspe:0.082611	eval
[1772]	train-rmse:0.073589 -rmspe:0.103177	eval-rmse:0.100178	train-rmspe:0.082598	eval
[1773]	train-rmse:0.073576 -rmspe:0.103178	eval-rmse:0.100179	train-rmspe:0.082584	eval
[1774]	train-rmse:0.073565 -rmspe:0.10317	eval-rmse:0.100171	train-rmspe:0.082573	eval
[1775]	train-rmse:0.073553 -rmspe:0.103164	eval-rmse:0.100166	train-rmspe:0.08256	eval
[1776]	train-rmse:0.07354 -rmspe:0.103164	eval-rmse:0.100165	train-rmspe:0.082542	eval
[1777]	train-rmse:0.073533 -rmspe:0.103163	eval-rmse:0.100165	train-rmspe:0.082535	eval

[1778]	train-rmse:0.073513 -rmspe:0.103169	eval-rmse:0.100166	train-rmspe:0.082513	eval
[1779]	train-rmse:0.073502 -rmspe:0.103166	eval-rmse:0.10016	train-rmspe:0.0825	eval
[1780]	train-rmse:0.073493 -rmspe:0.103172	eval-rmse:0.100171	train-rmspe:0.08249	eval
[1781]	train-rmse:0.073482 -rmspe:0.103162	eval-rmse:0.100165	train-rmspe:0.08248	eval
[1782]	train-rmse:0.073478 -rmspe:0.103167	eval-rmse:0.100173	train-rmspe:0.082477	eval
[1783]	train-rmse:0.073468 -rmspe:0.10317	eval-rmse:0.100179	train-rmspe:0.082467	eval
[1784]	train-rmse:0.073459 -rmspe:0.103157	eval-rmse:0.100168	train-rmspe:0.082459	eval
[1785]	train-rmse:0.073439 -rmspe:0.103149	eval-rmse:0.10016	train-rmspe:0.082437	eval
[1786]	train-rmse:0.073429 -rmspe:0.10313	eval-rmse:0.100132	train-rmspe:0.082425	eval
[1787]	train-rmse:0.073421 -rmspe:0.103129	eval-rmse:0.10013	train-rmspe:0.082417	eval
[1788]	train-rmse:0.073411 -rmspe:0.103123	eval-rmse:0.100125	train-rmspe:0.082407	eval
[1789]	train-rmse:0.073404 -rmspe:0.103128	eval-rmse:0.100129	train-rmspe:0.082401	eval
[1790]	train-rmse:0.073387 -rmspe:0.103124	eval-rmse:0.100124	train-rmspe:0.082374	eval
[1791]	train-rmse:0.073374 -rmspe:0.103118	eval-rmse:0.100119	train-rmspe:0.082097	eval
[1792]	train-rmse:0.073366 -rmspe:0.103111	eval-rmse:0.100114	train-rmspe:0.082089	eval
[1793]	train-rmse:0.073362 -rmspe:0.103111	eval-rmse:0.100114	train-rmspe:0.082084	eval
[1794]	train-rmse:0.073349 -rmspe:0.103102	eval-rmse:0.100107	train-rmspe:0.082069	eval
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[1796]	train-rmse:0.073322 -rmspe:0.103094	eval-rmse:0.100098	train-rmspe:0.082036	eval
[1797]	train-rmse:0.073313 -rmspe:0.103096	eval-rmse:0.100099	train-rmspe:0.082026	eval
[1798]	train-rmse:0.073302 -rmspe:0.10309	eval-rmse:0.100094	train-rmspe:0.082005	eval
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[1801]	train-rmse:0.073265 -rmspe:0.103089	eval-rmse:0.100093	train-rmspe:0.081725	eval
[1802]	train-rmse:0.073257 -rmspe:0.103089	eval-rmse:0.100093	train-rmspe:0.081713	eval
[1803]	train-rmse:0.07325 -rmspe:0.103081	eval-rmse:0.100087	train-rmspe:0.081705	eval
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[1805]	train-rmse:0.073237 -rmspe:0.103078	eval-rmse:0.10008	train-rmspe:0.081684	eval
[1806]	train-rmse:0.073227 -rmspe:0.103077	eval-rmse:0.100079	train-rmspe:0.081664	eval
[1807]	train-rmse:0.073216 -rmspe:0.103072	eval-rmse:0.100073	train-rmspe:0.081652	eval
[1808]	train-rmse:0.073204 -rmspe:0.103073	eval-rmse:0.100072	train-rmspe:0.08164	eval
[1809]	train-rmse:0.073194 -rmspe:0.103073	eval-rmse:0.100072	train-rmspe:0.081628	eval
[1810]	train-rmse:0.073179 -rmspe:0.103061	eval-rmse:0.100062	train-rmspe:0.081611	eval
[1811]	train-rmse:0.073163 -rmspe:0.103052	eval-rmse:0.100053	train-rmspe:0.081603	eval
[1812]	train-rmse:0.073148 -rmspe:0.103054	eval-rmse:0.100054	train-rmspe:0.081577	eval
[1813]	train-rmse:0.073138 -rmspe:0.103046	eval-rmse:0.100044	train-rmspe:0.081567	eval
[1814]	train-rmse:0.073126 -rmspe:0.103034	eval-rmse:0.100033	train-rmspe:0.081553	eval
[1815]	train-rmse:0.073117 -rmspe:0.103027	eval-rmse:0.100027	train-rmspe:0.081526	eval
[1816]	train-rmse:0.073107 -rmspe:0.103025	eval-rmse:0.100028	train-rmspe:0.081515	eval
[1817]	train-rmse:0.073099 -rmspe:0.103031	eval-rmse:0.100033	train-rmspe:0.081508	eval
[1818]	train-rmse:0.07309 -rmspe:0.103037	eval-rmse:0.100038	train-rmspe:0.081498	eval
[1819]	train-rmse:0.073082 -rmspe:0.103037	eval-rmse:0.100038	train-rmspe:0.081488	eval
[1820]	train-rmse:0.073074 -rmspe:0.103035	eval-rmse:0.100036	train-rmspe:0.081479	eval
[1821]	train-rmse:0.073058 -rmspe:0.10303	eval-rmse:0.100031	train-rmspe:0.081458	eval

[1822]	train-rmse:0.073048 -rmspe:0.103031	eval-rmse:0.10003	train-rmspe:0.081446	eval
[1823]	train-rmse:0.073037 -rmspe:0.103021	eval-rmse:0.100019	train-rmspe:0.081422	eval
[1824]	train-rmse:0.073027 -rmspe:0.103022	eval-rmse:0.10002	train-rmspe:0.081412	eval
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[1829]	train-rmse:0.072965 -rmspe:0.103018	eval-rmse:0.100016	train-rmspe:0.081335	eval
[1830]	train-rmse:0.072957 -rmspe:0.103017	eval-rmse:0.100016	train-rmspe:0.081326	eval
[1831]	train-rmse:0.072943 -rmspe:0.103017	eval-rmse:0.10001	train-rmspe:0.081307	eval
[1832]	train-rmse:0.072932 -rmspe:0.103013	eval-rmse:0.100005	train-rmspe:0.081293	eval
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[1834]	train-rmse:0.072917 -rmspe:0.103003	eval-rmse:0.100001	train-rmspe:0.081278	eval
[1835]	train-rmse:0.07291 -rmspe:0.102993	eval-rmse:0.09999	train-rmspe:0.081268	eval
[1836]	train-rmse:0.072899 -rmspe:0.102989	eval-rmse:0.099986	train-rmspe:0.08105	eval
[1837]	train-rmse:0.072884 -rmspe:0.102984	eval-rmse:0.099982	train-rmspe:0.081026	eval
[1838]	train-rmse:0.072871 -rmspe:0.102983	eval-rmse:0.09998	train-rmspe:0.081006	eval
[1839]	train-rmse:0.07286 -rmspe:0.102982	eval-rmse:0.099979	train-rmspe:0.080963	eval
[1840]	train-rmse:0.072846 -rmspe:0.10298	eval-rmse:0.099976	train-rmspe:0.080943	eval
[1841]	train-rmse:0.072832 -rmspe:0.102978	eval-rmse:0.099972	train-rmspe:0.080909	eval
[1842]	train-rmse:0.072816 -rmspe:0.10298	eval-rmse:0.099978	train-rmspe:0.080892	eval
[1843]	train-rmse:0.072808 -rmspe:0.102958	eval-rmse:0.099964	train-rmspe:0.080879	eval

[1844]	train-rmse:0.07279 -rmspe:0.102947	eval-rmse:0.099956	train-rmspe:0.08086	eval
[1845]	train-rmse:0.072778 -rmspe:0.102947	eval-rmse:0.099957	train-rmspe:0.080846	eval
[1846]	train-rmse:0.072767 -rmspe:0.102948	eval-rmse:0.099953	train-rmspe:0.080835	eval
[1847]	train-rmse:0.07275 -rmspe:0.102944	eval-rmse:0.09995	train-rmspe:0.080816	eval
[1848]	train-rmse:0.072734 -rmspe:0.102935	eval-rmse:0.099943	train-rmspe:0.080798	eval
[1849]	train-rmse:0.072722 -rmspe:0.102936	eval-rmse:0.099943	train-rmspe:0.080785	eval
[1850]	train-rmse:0.072712 -rmspe:0.102932	eval-rmse:0.099938	train-rmspe:0.080772	eval
[1851]	train-rmse:0.072705 -rmspe:0.102927	eval-rmse:0.099934	train-rmspe:0.080764	eval
[1852]	train-rmse:0.072697 -rmspe:0.102926	eval-rmse:0.09993	train-rmspe:0.080757	eval
[1853]	train-rmse:0.07269 -rmspe:0.102927	eval-rmse:0.099932	train-rmspe:0.08075	eval
[1854]	train-rmse:0.072673 -rmspe:0.102919	eval-rmse:0.099925	train-rmspe:0.080722	eval
[1855]	train-rmse:0.072665 -rmspe:0.102919	eval-rmse:0.099923	train-rmspe:0.080712	eval
[1856]	train-rmse:0.07266 -rmspe:0.10293	eval-rmse:0.099939	train-rmspe:0.080707	eval
[1857]	train-rmse:0.07265 -rmspe:0.102931	eval-rmse:0.099939	train-rmspe:0.080693	eval
[1858]	train-rmse:0.072638 -rmspe:0.102922	eval-rmse:0.099931	train-rmspe:0.080673	eval
[1859]	train-rmse:0.072628 -rmspe:0.102921	eval-rmse:0.09993	train-rmspe:0.080665	eval
[1860]	train-rmse:0.072619 -rmspe:0.102925	eval-rmse:0.099933	train-rmspe:0.080649	eval
[1861]	train-rmse:0.07261 -rmspe:0.102924	eval-rmse:0.099932	train-rmspe:0.080629	eval
[1862]	train-rmse:0.072604 -rmspe:0.102924	eval-rmse:0.099932	train-rmspe:0.080622	eval
[1863]	train-rmse:0.072592 -rmspe:0.10292	eval-rmse:0.099922	train-rmspe:0.080584	eval
[1864]	train-rmse:0.072585 -rmspe:0.102918	eval-rmse:0.099921	train-rmspe:0.080577	eval
[1865]	train-rmse:0.072576 -rmspe:0.102914	eval-rmse:0.099918	train-rmspe:0.080567	eval

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[1871]	train-rmse:0.072501	eval-rmse:0.099908	train-rmspe:0.080456	eval
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[1873]	train-rmse:0.072481	eval-rmse:0.099893	train-rmspe:0.080436	eval
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[1874]	train-rmse:0.072472	eval-rmse:0.099892	train-rmspe:0.080427	eval
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	-rmspe:0.102912			
[1879]	train-rmse:0.072434	eval-rmse:0.099905	train-rmspe:0.080377	eval
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[1880]	train-rmse:0.072424	eval-rmse:0.099908	train-rmspe:0.080292	eval
	-rmspe:0.102915			
[1881]	train-rmse:0.072408	eval-rmse:0.099908	train-rmspe:0.080271	eval
	-rmspe:0.102916			
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	-rmspe:0.102911			
[1883]	train-rmse:0.072381	eval-rmse:0.099899	train-rmspe:0.080229	eval
	-rmspe:0.102913			
[1884]	train-rmse:0.072361	eval-rmse:0.0999	train-rmspe:0.080187	eval
	-rmspe:0.102915			
[1885]	train-rmse:0.072354	eval-rmse:0.099906	train-rmspe:0.080178	eval
	-rmspe:0.102923			
[1886]	train-rmse:0.072341	eval-rmse:0.099899	train-rmspe:0.080166	eval
	-rmspe:0.102914			
[1887]	train-rmse:0.072331	eval-rmse:0.099903	train-rmspe:0.080156	eval
	-rmspe:0.102917			

[1888]	train-rmse:0.072318 -rmspe:0.102917	eval-rmse:0.099899	train-rmspe:0.080132	eval
[1889]	train-rmse:0.072304 -rmspe:0.102905	eval-rmse:0.09989	train-rmspe:0.080115	eval
[1890]	train-rmse:0.072295 -rmspe:0.102904	eval-rmse:0.09989	train-rmspe:0.080105	eval
[1891]	train-rmse:0.072289 -rmspe:0.102901	eval-rmse:0.099887	train-rmspe:0.080097	eval
[1892]	train-rmse:0.072279 -rmspe:0.102893	eval-rmse:0.099884	train-rmspe:0.080084	eval
[1893]	train-rmse:0.072269 -rmspe:0.102889	eval-rmse:0.099882	train-rmspe:0.080071	eval
[1894]	train-rmse:0.072255 -rmspe:0.102881	eval-rmse:0.099874	train-rmspe:0.080055	eval
[1895]	train-rmse:0.07225 -rmspe:0.10288	eval-rmse:0.099875	train-rmspe:0.080047	eval
[1896]	train-rmse:0.072239 -rmspe:0.102877	eval-rmse:0.099871	train-rmspe:0.080034	eval
[1897]	train-rmse:0.072232 -rmspe:0.102875	eval-rmse:0.099875	train-rmspe:0.080027	eval
[1898]	train-rmse:0.07222 -rmspe:0.102882	eval-rmse:0.09988	train-rmspe:0.080015	eval
[1899]	train-rmse:0.072208 -rmspe:0.102872	eval-rmse:0.099869	train-rmspe:0.080001	eval
[1900]	train-rmse:0.072193 -rmspe:0.102857	eval-rmse:0.09986	train-rmspe:0.079981	eval
[1901]	train-rmse:0.072186 -rmspe:0.102847	eval-rmse:0.099851	train-rmspe:0.079974	eval
[1902]	train-rmse:0.072178 -rmspe:0.102848	eval-rmse:0.099853	train-rmspe:0.079962	eval
[1903]	train-rmse:0.072173 -rmspe:0.102848	eval-rmse:0.099853	train-rmspe:0.079956	eval
[1904]	train-rmse:0.072159 -rmspe:0.102843	eval-rmse:0.09985	train-rmspe:0.079932	eval
[1905]	train-rmse:0.072151 -rmspe:0.102839	eval-rmse:0.099846	train-rmspe:0.079923	eval
[1906]	train-rmse:0.072145 -rmspe:0.102838	eval-rmse:0.099844	train-rmspe:0.079914	eval
[1907]	train-rmse:0.072131 -rmspe:0.102839	eval-rmse:0.099842	train-rmspe:0.079895	eval
[1908]	train-rmse:0.072121 -rmspe:0.10284	eval-rmse:0.09984	train-rmspe:0.079882	eval
[1909]	train-rmse:0.072107 -rmspe:0.102831	eval-rmse:0.099832	train-rmspe:0.079889	eval

[1910]	train-rmse:0.072099 -rmspe:0.102826	eval-rmse:0.099828	train-rmspe:0.07988	eval
[1911]	train-rmse:0.072085 -rmspe:0.102826	eval-rmse:0.099829	train-rmspe:0.079808	eval
[1912]	train-rmse:0.072075 -rmspe:0.10283	eval-rmse:0.099831	train-rmspe:0.079796	eval
[1913]	train-rmse:0.072064 -rmspe:0.10283	eval-rmse:0.099833	train-rmspe:0.0797	eval
[1914]	train-rmse:0.072051 -rmspe:0.102826	eval-rmse:0.099828	train-rmspe:0.079686	eval
[1915]	train-rmse:0.072042 -rmspe:0.102824	eval-rmse:0.099825	train-rmspe:0.079677	eval
[1916]	train-rmse:0.072032 -rmspe:0.102822	eval-rmse:0.099821	train-rmspe:0.079656	eval
[1917]	train-rmse:0.072021 -rmspe:0.102816	eval-rmse:0.099831	train-rmspe:0.079644	eval
[1918]	train-rmse:0.072009 -rmspe:0.102815	eval-rmse:0.099829	train-rmspe:0.079631	eval
[1919]	train-rmse:0.072 -rmspe:0.102814	eval-rmse:0.099829	train-rmspe:0.079622	eval
[1920]	train-rmse:0.071991 -rmspe:0.102817	eval-rmse:0.099829	train-rmspe:0.079613	eval
[1921]	train-rmse:0.071986 -rmspe:0.102817	eval-rmse:0.099829	train-rmspe:0.079609	eval
[1922]	train-rmse:0.071975 -rmspe:0.102811	eval-rmse:0.099821	train-rmspe:0.079595	eval
[1923]	train-rmse:0.071966 -rmspe:0.102806	eval-rmse:0.099816	train-rmspe:0.079587	eval
[1924]	train-rmse:0.071959 -rmspe:0.10281	eval-rmse:0.099819	train-rmspe:0.07958	eval
[1925]	train-rmse:0.071949 -rmspe:0.102804	eval-rmse:0.099816	train-rmspe:0.079569	eval
[1926]	train-rmse:0.071939 -rmspe:0.102793	eval-rmse:0.099802	train-rmspe:0.07956	eval
[1927]	train-rmse:0.071933 -rmspe:0.102793	eval-rmse:0.099804	train-rmspe:0.079553	eval
[1928]	train-rmse:0.071922 -rmspe:0.102792	eval-rmse:0.099807	train-rmspe:0.079541	eval
[1929]	train-rmse:0.071912 -rmspe:0.102793	eval-rmse:0.099806	train-rmspe:0.079529	eval
[1930]	train-rmse:0.071898 -rmspe:0.102789	eval-rmse:0.099804	train-rmspe:0.079515	eval
[1931]	train-rmse:0.071886 -rmspe:0.10278	eval-rmse:0.099798	train-rmspe:0.079501	eval

[1932]	train-rmse:0.071872	eval-rmse:0.099797	train-rmspe:0.079484	eval-rmspe:0.102777
[1933]	train-rmse:0.071861	eval-rmse:0.099799	train-rmspe:0.079474	eval-rmspe:0.102782
[1934]	train-rmse:0.071848	eval-rmse:0.099795	train-rmspe:0.079458	eval-rmspe:0.102778
[1935]	train-rmse:0.071831	eval-rmse:0.099788	train-rmspe:0.079434	eval-rmspe:0.102768
[1936]	train-rmse:0.071825	eval-rmse:0.09983	train-rmspe:0.079429	eval-rmspe:0.102793
[1937]	train-rmse:0.071814	eval-rmse:0.099825	train-rmspe:0.079416	eval-rmspe:0.102788
[1938]	train-rmse:0.071803	eval-rmse:0.099821	train-rmspe:0.079402	eval-rmspe:0.102778
[1939]	train-rmse:0.071793	eval-rmse:0.099819	train-rmspe:0.079388	eval-rmspe:0.10278
[1940]	train-rmse:0.071788	eval-rmse:0.099812	train-rmspe:0.079383	eval-rmspe:0.10278
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[1942]	train-rmse:0.071769	eval-rmse:0.099831	train-rmspe:0.079356	eval-rmspe:0.102807
[1943]	train-rmse:0.071765	eval-rmse:0.099832	train-rmspe:0.079351	eval-rmspe:0.102807
[1944]	train-rmse:0.071758	eval-rmse:0.099832	train-rmspe:0.079344	eval-rmspe:0.102808
[1945]	train-rmse:0.071751	eval-rmse:0.099823	train-rmspe:0.079334	eval-rmspe:0.102802
[1946]	train-rmse:0.071745	eval-rmse:0.09982	train-rmspe:0.079329	eval-rmspe:0.1028
[1947]	train-rmse:0.071742	eval-rmse:0.099819	train-rmspe:0.079326	eval-rmspe:0.102799
[1948]	train-rmse:0.071733	eval-rmse:0.099816	train-rmspe:0.079314	eval-rmspe:0.102797
[1949]	train-rmse:0.071726	eval-rmse:0.099818	train-rmspe:0.079307	eval-rmspe:0.102803
[1950]	train-rmse:0.07172	eval-rmse:0.099817	train-rmspe:0.079299	eval-rmspe:0.1028
[1951]	train-rmse:0.071706	eval-rmse:0.099807	train-rmspe:0.079278	eval-rmspe:0.102789
[1952]	train-rmse:0.071697	eval-rmse:0.099805	train-rmspe:0.079265	eval-rmspe:0.102788
[1953]	train-rmse:0.071682	eval-rmse:0.099803	train-rmspe:0.079241	eval-rmspe:0.102788

[1954]	train-rmse:0.071663	eval-rmse:0.099803	train-rmspe:0.07922	eval
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[1958]	train-rmse:0.07163	eval-rmse:0.099795	train-rmspe:0.079182	eval
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[1960]	train-rmse:0.071615	eval-rmse:0.099778	train-rmspe:0.079164	eval
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[1961]	train-rmse:0.0716	eval-rmse:0.099775	train-rmspe:0.079144	eval
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[1962]	train-rmse:0.07159	eval-rmse:0.099771	train-rmspe:0.079135	eval
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[1963]	train-rmse:0.071582	eval-rmse:0.099772	train-rmspe:0.079128	eval
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[1964]	train-rmse:0.071573	eval-rmse:0.099768	train-rmspe:0.079118	eval
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[1965]	train-rmse:0.071569	eval-rmse:0.099767	train-rmspe:0.079113	eval
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[1966]	train-rmse:0.07156	eval-rmse:0.099767	train-rmspe:0.079099	eval
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[1967]	train-rmse:0.071546	eval-rmse:0.09976	train-rmspe:0.079085	eval
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[1968]	train-rmse:0.071537	eval-rmse:0.099756	train-rmspe:0.079074	eval
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[1969]	train-rmse:0.071526	eval-rmse:0.099757	train-rmspe:0.079062	eval
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[1970]	train-rmse:0.071516	eval-rmse:0.099756	train-rmspe:0.079047	eval
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[1971]	train-rmse:0.071508	eval-rmse:0.099752	train-rmspe:0.079037	eval
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[1972]	train-rmse:0.071494	eval-rmse:0.099746	train-rmspe:0.079024	eval
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[1973]	train-rmse:0.071481	eval-rmse:0.099741	train-rmspe:0.07901	eval
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[1974]	train-rmse:0.071473	eval-rmse:0.099743	train-rmspe:0.078996	eval
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[1976]	train-rmse:0.071457	eval-rmse:0.099739	train-rmspe:0.078977	eval-rmspe:0.102711
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[1978]	train-rmse:0.071437	eval-rmse:0.099736	train-rmspe:0.078945	eval-rmspe:0.102708
[1979]	train-rmse:0.071431	eval-rmse:0.099747	train-rmspe:0.078935	eval-rmspe:0.102714
[1980]	train-rmse:0.071424	eval-rmse:0.099743	train-rmspe:0.078928	eval-rmspe:0.10271
[1981]	train-rmse:0.071416	eval-rmse:0.099745	train-rmspe:0.078919	eval-rmspe:0.102711
[1982]	train-rmse:0.071406	eval-rmse:0.099744	train-rmspe:0.078907	eval-rmspe:0.102708
[1983]	train-rmse:0.071393	eval-rmse:0.099746	train-rmspe:0.078895	eval-rmspe:0.102708
[1984]	train-rmse:0.071389	eval-rmse:0.099741	train-rmspe:0.078896	eval-rmspe:0.102701
[1985]	train-rmse:0.071377	eval-rmse:0.099735	train-rmspe:0.078886	eval-rmspe:0.102695
[1986]	train-rmse:0.071372	eval-rmse:0.099735	train-rmspe:0.078881	eval-rmspe:0.102695
[1987]	train-rmse:0.071364	eval-rmse:0.099735	train-rmspe:0.078868	eval-rmspe:0.102696
[1988]	train-rmse:0.071353	eval-rmse:0.099732	train-rmspe:0.078854	eval-rmspe:0.102691
[1989]	train-rmse:0.07134	eval-rmse:0.09973	train-rmspe:0.078839	eval-rmspe:0.102691
[1990]	train-rmse:0.071331	eval-rmse:0.099728	train-rmspe:0.07883	eval-rmspe:0.102687
[1991]	train-rmse:0.071325	eval-rmse:0.099728	train-rmspe:0.078823	eval-rmspe:0.10269
[1992]	train-rmse:0.071315	eval-rmse:0.099727	train-rmspe:0.078812	eval-rmspe:0.10269
[1993]	train-rmse:0.071311	eval-rmse:0.099729	train-rmspe:0.078808	eval-rmspe:0.102692
[1994]	train-rmse:0.071301	eval-rmse:0.099728	train-rmspe:0.078798	eval-rmspe:0.102691
[1995]	train-rmse:0.071289	eval-rmse:0.09973	train-rmspe:0.078785	eval-rmspe:0.102695
[1996]	train-rmse:0.07128	eval-rmse:0.099729	train-rmspe:0.078773	eval-rmspe:0.102694
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[2001]	train-rmse:0.071233 -rmspe:0.102683	eval-rmse:0.099738	train-rmspe:0.078712	eval
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[2004]	train-rmse:0.071208 -rmspe:0.102683	eval-rmse:0.099734	train-rmspe:0.078686	eval
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[2006]	train-rmse:0.071186 -rmspe:0.102671	eval-rmse:0.099724	train-rmspe:0.078659	eval
[2007]	train-rmse:0.071181 -rmspe:0.102672	eval-rmse:0.099724	train-rmspe:0.078653	eval
[2008]	train-rmse:0.071171 -rmspe:0.102667	eval-rmse:0.099719	train-rmspe:0.078641	eval
[2009]	train-rmse:0.071161 -rmspe:0.102666	eval-rmse:0.099716	train-rmspe:0.078625	eval
[2010]	train-rmse:0.071156 -rmspe:0.102664	eval-rmse:0.099714	train-rmspe:0.078619	eval
[2011]	train-rmse:0.071146 -rmspe:0.102667	eval-rmse:0.099719	train-rmspe:0.078609	eval
[2012]	train-rmse:0.071134 -rmspe:0.102661	eval-rmse:0.099717	train-rmspe:0.078593	eval
[2013]	train-rmse:0.071118 -rmspe:0.102653	eval-rmse:0.099708	train-rmspe:0.078569	eval
[2014]	train-rmse:0.071107 -rmspe:0.102659	eval-rmse:0.09971	train-rmspe:0.078551	eval
[2015]	train-rmse:0.0711 -rmspe:0.102657	eval-rmse:0.099707	train-rmspe:0.078541	eval
[2016]	train-rmse:0.07109 -rmspe:0.102665	eval-rmse:0.099714	train-rmspe:0.078527	eval
[2017]	train-rmse:0.071084 -rmspe:0.102664	eval-rmse:0.099714	train-rmspe:0.078519	eval
[2018]	train-rmse:0.071074 -rmspe:0.102669	eval-rmse:0.099719	train-rmspe:0.078506	eval
[2019]	train-rmse:0.071069 -rmspe:0.102668	eval-rmse:0.099719	train-rmspe:0.078489	eval

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[2025]	train-rmse:0.071016 -rmspe:0.102651	eval-rmse:0.099702	train-rmspe:0.078434	eval
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[2027]	train-rmse:0.070994 -rmspe:0.102659	eval-rmse:0.099706	train-rmspe:0.078399	eval
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[2040]	train-rmse:0.07085 -rmspe:0.102627	eval-rmse:0.099663	train-rmspe:0.078183	eval
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[2058]	train-rmse:0.07067 -rmspe:0.102552	eval-rmse:0.099604	train-rmspe:0.077963	eval
[2059]	train-rmse:0.070661 -rmspe:0.102546	eval-rmse:0.099601	train-rmspe:0.077939	eval
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[2075]	train-rmse:0.070521 -rmspe:0.102489	eval-rmse:0.099558	train-rmspe:0.077769	eval
[2076]	train-rmse:0.070511 -rmspe:0.10249	eval-rmse:0.099559	train-rmspe:0.077756	eval
[2077]	train-rmse:0.070506 -rmspe:0.102497	eval-rmse:0.099568	train-rmspe:0.077752	eval
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[2083]	train-rmse:0.070449 -rmspe:0.102474	eval-rmse:0.099558	train-rmspe:0.077685	eval
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[2154]	train-rmse:0.069809 -rmspe:0.102425	eval-rmse:0.099517	train-rmspe:0.076626	eval
[2155]	train-rmse:0.069802 -rmspe:0.102424	eval-rmse:0.099516	train-rmspe:0.076619	eval
[2156]	train-rmse:0.069796 -rmspe:0.102423	eval-rmse:0.099517	train-rmspe:0.076609	eval
[2157]	train-rmse:0.069788 -rmspe:0.102417	eval-rmse:0.099512	train-rmspe:0.076599	eval
[2158]	train-rmse:0.06978 -rmspe:0.102418	eval-rmse:0.099512	train-rmspe:0.076587	eval
[2159]	train-rmse:0.069773 -rmspe:0.102437	eval-rmse:0.099541	train-rmspe:0.076579	eval
[2160]	train-rmse:0.069763 -rmspe:0.102439	eval-rmse:0.099541	train-rmspe:0.076566	eval
[2161]	train-rmse:0.069756 -rmspe:0.102435	eval-rmse:0.099537	train-rmspe:0.076558	eval
[2162]	train-rmse:0.069742 -rmspe:0.102431	eval-rmse:0.099529	train-rmspe:0.076529	eval
[2163]	train-rmse:0.069734 -rmspe:0.102429	eval-rmse:0.099527	train-rmspe:0.076521	eval
[2164]	train-rmse:0.069717 -rmspe:0.102421	eval-rmse:0.099517	train-rmspe:0.076501	eval
[2165]	train-rmse:0.069711 -rmspe:0.102418	eval-rmse:0.099514	train-rmspe:0.076494	eval
[2166]	train-rmse:0.069704 -rmspe:0.102413	eval-rmse:0.09951	train-rmspe:0.076484	eval
[2167]	train-rmse:0.069693 -rmspe:0.102404	eval-rmse:0.099502	train-rmspe:0.076474	eval
[2168]	train-rmse:0.069681 -rmspe:0.102399	eval-rmse:0.099497	train-rmspe:0.076452	eval
[2169]	train-rmse:0.069671 -rmspe:0.102401	eval-rmse:0.0995	train-rmspe:0.07644	eval
[2170]	train-rmse:0.069666 -rmspe:0.102396	eval-rmse:0.099497	train-rmspe:0.076434	eval
[2171]	train-rmse:0.069654 -rmspe:0.102395	eval-rmse:0.099497	train-rmspe:0.076417	eval
[2172]	train-rmse:0.069651 -rmspe:0.1024	eval-rmse:0.099501	train-rmspe:0.076414	eval
[2173]	train-rmse:0.069642 -rmspe:0.102399	eval-rmse:0.099503	train-rmspe:0.076406	eval

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	-rmspe:0.102397			
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	-rmspe:0.102402			
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	-rmspe:0.102415			
[2186]	train-rmse:0.069517	eval-rmse:0.099509	train-rmspe:0.07622	eval
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[2188]	train-rmse:0.069503	eval-rmse:0.09951	train-rmspe:0.076202	eval
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[2190]	train-rmse:0.069484	eval-rmse:0.099514	train-rmspe:0.076172	eval
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[2192]	train-rmse:0.069458	eval-rmse:0.099507	train-rmspe:0.076139	eval
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[2203]	train-rmse:0.069369	eval-rmse:0.0995	train-rmspe:0.076019	eval
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[2204]	train-rmse:0.069359	eval-rmse:0.099499	train-rmspe:0.076004	eval
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[2206]	train-rmse:0.06934	eval-rmse:0.099498	train-rmspe:0.07597	eval
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[2211]	train-rmse:0.0693	eval-rmse:0.099501	train-rmspe:0.075891	eval
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[2213]	train-rmse:0.06928	eval-rmse:0.099504	train-rmspe:0.075865	eval
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[2214]	train-rmse:0.069274	eval-rmse:0.099501	train-rmspe:0.07586	eval
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[2215]	train-rmse:0.06927	eval-rmse:0.0995	train-rmspe:0.075856	eval
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[2217]	train-rmse:0.069247	eval-rmse:0.099495	train-rmspe:0.07583	eval
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[2218]	train-rmse:0.069233	eval-rmse:0.099491	train-rmspe:0.075809	eval
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[2219]	train-rmse:0.069223	eval-rmse:0.099487	train-rmspe:0.075797	eval
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[2220]	train-rmse:0.06922	eval-rmse:0.099495	train-rmspe:0.075793	eval
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[2221]	train-rmse:0.069208	eval-rmse:0.099494	train-rmspe:0.07578	eval
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[2224]	train-rmse:0.069171	eval-rmse:0.099461	train-rmspe:0.075733	eval
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[2225]	train-rmse:0.069162	eval-rmse:0.099461	train-rmspe:0.075721	eval
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[2226]	train-rmse:0.069149	eval-rmse:0.099461	train-rmspe:0.075708	eval
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[2246]	train-rmse:0.068969	eval-rmse:0.099405	train-rmspe:0.075511	eval
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[2247]	train-rmse:0.068959	eval-rmse:0.099405	train-rmspe:0.075499	eval
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[2249]	train-rmse:0.068943	eval-rmse:0.099409	train-rmspe:0.075483	eval
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[2250]	train-rmse:0.068937	eval-rmse:0.09941	train-rmspe:0.075473	eval
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[2252]	train-rmse:0.068916	eval-rmse:0.099408	train-rmspe:0.07545	eval
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[2253]	train-rmse:0.068907	eval-rmse:0.099404	train-rmspe:0.075424	eval
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[2254]	train-rmse:0.068903	eval-rmse:0.099404	train-rmspe:0.07542	eval
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	-rmspe:0.102284			
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	-rmspe:0.102289			
[2257]	train-rmse:0.068876	eval-rmse:0.099402	train-rmspe:0.075392	eval
	-rmspe:0.102287			
[2258]	train-rmse:0.068866	eval-rmse:0.099394	train-rmspe:0.075374	eval
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[2259]	train-rmse:0.06886	eval-rmse:0.099394	train-rmspe:0.075367	eval
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[2260]	train-rmse:0.068854	eval-rmse:0.099393	train-rmspe:0.075361	eval
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[2263]	train-rmse:0.068827	eval-rmse:0.099385	train-rmspe:0.07533	eval-rmspe:0.10226
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[2265]	train-rmse:0.068812	eval-rmse:0.099385	train-rmspe:0.075299	eval-rmspe:0.102265
[2266]	train-rmse:0.068802	eval-rmse:0.099386	train-rmspe:0.075287	eval-rmspe:0.102268
[2267]	train-rmse:0.068796	eval-rmse:0.099379	train-rmspe:0.075281	eval-rmspe:0.10226
[2268]	train-rmse:0.068787	eval-rmse:0.099378	train-rmspe:0.075269	eval-rmspe:0.10226
[2269]	train-rmse:0.068779	eval-rmse:0.099372	train-rmspe:0.075259	eval-rmspe:0.102253
[2270]	train-rmse:0.068772	eval-rmse:0.099373	train-rmspe:0.075249	eval-rmspe:0.102255
[2271]	train-rmse:0.068767	eval-rmse:0.099376	train-rmspe:0.07524	eval-rmspe:0.10226
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[2279]	train-rmse:0.068695	eval-rmse:0.099367	train-rmspe:0.075146	eval-rmspe:0.102236
[2280]	train-rmse:0.068687	eval-rmse:0.099369	train-rmspe:0.075136	eval-rmspe:0.102235
[2281]	train-rmse:0.068683	eval-rmse:0.099364	train-rmspe:0.075132	eval-rmspe:0.10223
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[2291]	train-rmse:0.068588	eval-rmse:0.099342	train-rmspe:0.074962	eval-rmspe:0.102212
[2292]	train-rmse:0.068579	eval-rmse:0.099339	train-rmspe:0.074952	eval-rmspe:0.102209
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[2301]	train-rmse:0.0685	eval-rmse:0.099375	train-rmspe:0.074847	eval-rmspe:0.102275
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[2306]	train-rmse:0.068454	eval-rmse:0.099395	train-rmspe:0.074776	eval-rmspe:0.102287
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[2474]	train-rmse:0.06715 -rmspe:0.102155	eval-rmse:0.099273	train-rmspe:0.072866	eval
[2475]	train-rmse:0.067144 -rmspe:0.102155	eval-rmse:0.099272	train-rmspe:0.072861	eval
[2476]	train-rmse:0.067138 -rmspe:0.102155	eval-rmse:0.09927	train-rmspe:0.072854	eval
[2477]	train-rmse:0.06713 -rmspe:0.10215	eval-rmse:0.099266	train-rmspe:0.072845	eval
[2478]	train-rmse:0.067124 -rmspe:0.102151	eval-rmse:0.099267	train-rmspe:0.072837	eval
[2479]	train-rmse:0.067117 -rmspe:0.10215	eval-rmse:0.099265	train-rmspe:0.072831	eval
[2480]	train-rmse:0.067111 -rmspe:0.102151	eval-rmse:0.099265	train-rmspe:0.072825	eval
[2481]	train-rmse:0.067103 -rmspe:0.102143	eval-rmse:0.099259	train-rmspe:0.072816	eval

[2482]	train-rmse:0.067097 -rmspe:0.102139	eval-rmse:0.099255	train-rmspe:0.07275	eval
[2483]	train-rmse:0.06709 -rmspe:0.102138	eval-rmse:0.099254	train-rmspe:0.072742	eval
[2484]	train-rmse:0.067085 -rmspe:0.102135	eval-rmse:0.099251	train-rmspe:0.072736	eval
[2485]	train-rmse:0.067076 -rmspe:0.102127	eval-rmse:0.099236	train-rmspe:0.072723	eval
[2486]	train-rmse:0.067069 -rmspe:0.10212	eval-rmse:0.099229	train-rmspe:0.07271	eval
[2487]	train-rmse:0.06706 -rmspe:0.102114	eval-rmse:0.099225	train-rmspe:0.0727	eval
[2488]	train-rmse:0.06705 -rmspe:0.102112	eval-rmse:0.099223	train-rmspe:0.072684	eval
[2489]	train-rmse:0.06704 -rmspe:0.102109	eval-rmse:0.099223	train-rmspe:0.072672	eval
[2490]	train-rmse:0.067031 -rmspe:0.102109	eval-rmse:0.099222	train-rmspe:0.072659	eval
[2491]	train-rmse:0.067024 -rmspe:0.102109	eval-rmse:0.099219	train-rmspe:0.072653	eval
[2492]	train-rmse:0.067012 -rmspe:0.102103	eval-rmse:0.099214	train-rmspe:0.072633	eval
[2493]	train-rmse:0.067002 -rmspe:0.102106	eval-rmse:0.099214	train-rmspe:0.072622	eval
[2494]	train-rmse:0.066999 -rmspe:0.102109	eval-rmse:0.099217	train-rmspe:0.072619	eval
[2495]	train-rmse:0.066991 -rmspe:0.102109	eval-rmse:0.099216	train-rmspe:0.072611	eval
[2496]	train-rmse:0.066987 -rmspe:0.102111	eval-rmse:0.099218	train-rmspe:0.072602	eval
[2497]	train-rmse:0.066979 -rmspe:0.102107	eval-rmse:0.099213	train-rmspe:0.072594	eval
[2498]	train-rmse:0.066972 -rmspe:0.102107	eval-rmse:0.099212	train-rmspe:0.072585	eval
[2499]	train-rmse:0.066964 -rmspe:0.102105	eval-rmse:0.099211	train-rmspe:0.072577	eval