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# 汇总

# YEAR

## Default parameters

### XGBoost

The XGBOOST for Year:

A picture containing bird

Description automatically generated

Train with GPU

A screenshot of a cell phone

Description automatically generated

80.69211157358245

### CatBoost

model = CatBoostRegressor (objective = 'RMSE', task\_type = "GPU", devices='0:1')

Expected = 80.68+-0.04

#### Test Results

{1: 80.3827416996541,

13: 80.31187063107521,

133: 80.38105671723287,

295: 80.34674133330854,

602: 80.40662791044201,

970: 80.16362715502423,

1337: 80.35091267569976,

2000: 80.53033444071298,

3000: 80.44718868487982,

10000: 80.42716483579963}

A screenshot of a social media post

Description automatically generated

A screenshot of a cell phone

Description automatically generated

## Tuned

### Xgboost

Mean: 79.00508287916442

Max: 79.48666193523262

Min: 78.71213628639002

Distance to max 0.48157905606819895

Distance to min: -0.29294659277439905

A screenshot of a cell phone

Description automatically generatedA screenshot of a cell phone

Description automatically generated

{1: 80.5923959788121,

13: 80.98218942101902,

133: 81.50610204662598,

295: 81.68896142687018,

602: 81.39323862893012,

970: 80.42711211280893,

1337: 80.9519857325117,

2000: 81.09786463625446,

3000: 80.27285476424572,

10000: 80.91483441261546}

Mean: 80.98275391606937

Max: 81.68896142687018

Min: 80.27285476424572

Distance to max 0.7062075108008088

Distance to min: -0.7098991518236488

A screenshot of a cell phone

Description automatically generated

### Catboost

A picture containing table

Description automatically generated

A close up of a logo

Description automatically generated

弃用数据：

A screenshot of a cell phone

Description automatically generated

A screenshot of a cell phone

Description automatically generated

A screenshot of a cell phone

Description automatically generated

A screenshot of a cell phone

Description automatically generated

Catboost for Year: model = CatBoostRegressor(n\_estimator = 2048)

random\_state=1337

A screenshot of a cell phone

Description automatically generated

A screenshot of a cell phone

Description automatically generated

# HIGGS

CATboost

A screenshot of a cell phone

Description automatically generated

XGBOOST

A screenshot of a cell phone

Description automatically generated

# Microsoft

## Default

### CatBoost

Expected: 0.5587±2e−4

A screenshot of a cell phone

Description automatically generated

{1: 0.5595338047115155,

13: 0.5599850643645525,

133: 0.5593387819841116,

295: 0.5590091438855714,

602: 0.558662432873573,

970: 0.5599593243738817,

1337: 0.559595081948266,

2000: 0.5597703852798718,

3000: 0.5597525210009194,

10000: 0.5590981440383821}

A picture containing black, photo, sitting, white

Description automatically generated

### XGBoost

A close up of a black background

Description automatically generated

## Tuned

### Xgboost

A screenshot of a cell phone

Description automatically generated

### Catboost

# Yahoo

## Default

### CatBoost

{1: 0.570493521308084,

13: 0.5708087345881557,

133: 0.5703873785074465,

295: 0.5698020811810269,

602: 0.5700756400671233,

970: 0.5702986946850953,

1337: 0.5698540546226871,

2000: 0.5702912297970216,

3000: 0.5700712135663754,

10000: 0.5706918671307404}

A close up of a logo

Description automatically generated

A screenshot of a cell phone

Description automatically generated

### Xgboost

A screenshot of a cell phone

Description automatically generated

## Tuned

### Xgboost

A screenshot of text

Description automatically generated

### Catboost

### A screenshot of a cell phone Description automatically generated

# CLICK

## Default Patameters

### Catboost

Expected: 0.3438±1e−3

对比后 决定选用

model = CatBoostClassifier(objective = 'CrossEntropy',task\_type="GPU",

devices='0:1')

0.3318

A screenshot of a cell phone

Description automatically generated

### XGboost

XGboost for CLICK:

0.33528

A screenshot of a cell phone

Description automatically generated

0.33207

A screenshot of a cell phone

Description automatically generated

## Tuned

### Xgboost

FINAL mse: 0.33035000000000003

----

{1: 0.3306,

13: 0.3298,

133: 0.33050999999999997,

295: 0.33035000000000003,

602: 0.33037000000000005,

970: 0.33055,

1337: 0.3318,

2000: 0.32992,

3000: 0.33055,

10000: 0.33035000000000003}

Mean: 0.33048

Max: 0.3318

Min: 0.3298

Distance to max 0.0013199999999999878

Distance to min: -0.0006800000000000139

A close up of text on a black background

Description automatically generated

### Catboost

# ADULT

## Default

### XGboost

A picture containing drawing

Description automatically generated

### Catboost

A screenshot of text

Description automatically generated

## Tuned

### Xgboost

{1: 0.12960687960687955,

13: 0.12668918918918914,

133: 0.12684275184275184,

295: 0.12761056511056512,

602: 0.12714987714987713,

970: 0.1282248157248157,

1337: 0.13267813267813267,

2000: 0.1277641277641277,

3000: 0.12899262899262898,

10000: 0.12699631449631454}

Mean: 0.12825552825552822

Max: 0.13267813267813267

Min: 0.12668918918918914

Distance to max 0.004422604422604448

Distance to min: -0.001566339066339073

A screenshot of a cell phone

Description automatically generated

### Catboost

A screenshot of a cell phone

Description automatically generated

# SHELTER

## Default

### XGboost

A screenshot of a cell phone

Description automatically generated

### Catboost

## Tuned

### Xgboost

FINAL Error: 0.25776885474860334

----

{1: 0.25776885474860334,

13: 0.2456354748603352,

133: 0.25776885474860334,

295: 0.2796787709497207,

602: 0.25776885474860334,

970: 0.25776885474860334,

1337: 0.25776885474860334,

2000: 0.25776885474860334,

3000: 0.25776885474860334,

10000: 0.25776885474860334}

Mean: 0.2587465083798883

Max: 0.2796787709497207

Min: 0.2456354748603352

Distance to max 0.02093226256983244

Distance to min: -0.013111033519553061

A picture containing table

Description automatically generated

A screenshot of a cell phone

Description automatically generated

A screenshot of a cell phone

Description automatically generated

### Catboost

A screenshot of a cell phone

Description automatically generated

# 可无视

CatBoost for CLICK: model = CatBoostRegressor(n\_estimator = 2048)

A close up of a logo

Description automatically generated

Error rate: 0.33160999999999996

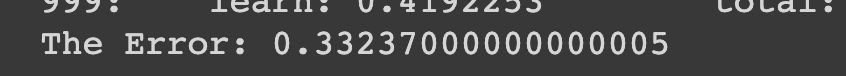
CatBoost for CLICK: model = CatBoostRegressor()

A picture containing keyboard

Description automatically generated

model = CatBoostClassifier(objective = 'CrossEntropy',task\_type="GPU",

devices='0:1')



model = CatBoostClassifier(objective = 'CrossEntropy',task\_type="GPU", num\_trees = 2048

devices='0:1')

A screenshot of a cell phone

Description automatically generated