

Teams and Channels | General | Machine Learning - ColabML practice - ColabXGBoost Parameters — xgboos

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ML practice

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Files

sample_dataTravel.csvcardekho_imputed.csv

75.11 GB available

+ Code + Text

0.8455385986857666

import pandas as pd
a=pd.read_csv('Travel.csv')
a

	CustomerID	ProdTaken	Age	TypeofContact	CityTier	DurationOfPitch	Occupation	Gender	NumberOfPersonVisiting	NumberOfFo
0	200000	1	41.0	Self Enquiry	3	6.0	Salaried	Female	3	
1	200001	0	49.0	Company Invited	1	14.0	Salaried	Male	3	
2	200002	1	37.0	Self Enquiry	1	8.0	Free Lancer	Male	3	
3	200003	0	33.0	Company Invited	1	9.0	Salaried	Female	2	
4	200004	0	NaN	Self Enquiry	1	8.0	Small Business	Male	2	
...
4883	204883	1	49.0	Self Enquiry	3	9.0	Small Business	Male	3	

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Travel.csv
cardekho_imputed.csv

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4885	204885	1	52.0	Self Enquiry	3	17.0	Salaried	Female	4
4886	204886	1	19.0	Self Enquiry	3	16.0	Small Business	Male	3
4887	204887	1	36.0	Self Enquiry	1	14.0	Salaried	Male	4

4888 rows x 20 columns

Next steps: [View recommended plots](#) [New interactive sheet](#)

[3] a['Gender']=a['Gender'].replace('Fe Male','Female')

[4] a['MaritalStatus']=a['MaritalStatus'].replace('Single','Unmarried')

[5] a['Age'].fillna(a['Age'].median(),inplace=True)

<ipython-input-5-e8570a18c610>:1: FutureWarning: A value is trying to be set on a copy of a DataFrame or Series through chained as The behavior will change in pandas 3.0. This inplace method will never work because the intermediate object on which we are settir

For example, when doing 'df[col].method(value, inplace=True)', try using 'df.method({col: value}, inplace=True)' or df[col] = df[c

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```
a['Age'].fillna(a['Age'].median(),inplace=True)
```

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```
a['TypeofContact'].fillna(a['TypeofContact'].mode()[0],inplace=True)
```

<ipython-input-6-b9e7b0f4e967>:1: FutureWarning: A value is trying to be set on a copy of a DataFrame or Series through chained as The behavior will change in pandas 3.0. This inplace method will never work because the intermediate object on which we are settir For example, when doing 'df[col].method(value, inplace=True)', try using 'df.method({col: value}, inplace=True)' or df[col] = df[c

```
a['TypeofContact'].fillna(a['TypeofContact'].mode()[0],inplace=True)
```

0s

```
[7] a['DurationOfPitch'].fillna(a['DurationOfPitch'].median(),inplace=True)
```

<ipython-input-7-4252e15c4d5b>:1: FutureWarning: A value is trying to be set on a copy of a DataFrame or Series through chained as The behavior will change in pandas 3.0. This inplace method will never work because the intermediate object on which we are settir For example, when doing 'df[col].method(value, inplace=True)', try using 'df.method({col: value}, inplace=True)' or df[col] = df[c

```
a['DurationOfPitch'].fillna(a['DurationOfPitch'].median(),inplace=True)
```

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Files

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```
a['DurationOfPitch'].fillna(a['DurationOfPitch'].median(),inplace=True)
```

```
[8] a['NumberOfFollowups'].fillna(a['NumberOfFollowups'].mode()[0],inplace=True)
```

<ipython-input-8-3e2743f97aa2>:1: FutureWarning: A value is trying to be set on a copy of a DataFrame or Series through chained as The behavior will change in pandas 3.0. This inplace method will never work because the intermediate object on which we are settir For example, when doing 'df[col].method(value, inplace=True)', try using 'df.method({col: value}, inplace=True)' or df[col] = df[c

```
a['NumberOfFollowups'].fillna(a['NumberOfFollowups'].mode()[0],inplace=True)
```

```
[9] a['PreferredPropertyStar'].fillna(a['PreferredPropertyStar'].mode()[0],inplace=True)
```

<ipython-input-9-447d90b3b24f>:1: FutureWarning: A value is trying to be set on a copy of a DataFrame or Series through chained as The behavior will change in pandas 3.0. This inplace method will never work because the intermediate object on which we are settir For example, when doing 'df[col].method(value, inplace=True)', try using 'df.method({col: value}, inplace=True)' or df[col] = df[c

```
a['PreferredPropertyStar'].fillna(a['PreferredPropertyStar'].mode()[0],inplace=True)
```

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```
[10] a['NumberOfTrips'].fillna(a['NumberOfTrips'].median(),inplace=True)
```

<ipython-input-10-e91c4ef5a34c>:1: FutureWarning: A value is trying to be set on a copy of a DataFrame or Series through chained assignment... The behavior will change in pandas 3.0. This inplace method will never work because the intermediate object on which we are setting the values is a copy. For example, when doing 'df[col].method(value, inplace=True)', try using 'df.method({col: value}, inplace=True)' or df[col] = df[col].method(value, inplace=True).

```
a['NumberOfTrips'].fillna(a['NumberOfTrips'].median(),inplace=True)
```

```
[11] a['NumberOfChildrenVisiting'].fillna(a['NumberOfChildrenVisiting'].mode()[0],inplace=True)
```

<ipython-input-11-e481d0c9200f>:1: FutureWarning: A value is trying to be set on a copy of a DataFrame or Series through chained assignment... The behavior will change in pandas 3.0. This inplace method will never work because the intermediate object on which we are setting the values is a copy. For example, when doing 'df[col].method(value, inplace=True)', try using 'df.method({col: value}, inplace=True)' or df[col] = df[col].method(value, inplace=True).

```
a['NumberOfChildrenVisiting'].fillna(a['NumberOfChildrenVisiting'].mode()[0],inplace=True)
```

```
[12] a['MonthlyIncome'].fillna(a['MonthlyIncome'].median(),inplace=True)
```

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[12] a['MonthlyIncome'].fillna(a['MonthlyIncome'].median(),inplace=True)

<ipython-input-12-ad80a2691a99>:1: FutureWarning: A value is trying to be set on a copy of a DataFrame or Series through chained a
The behavior will change in pandas 3.0. This inplace method will never work because the intermediate object on which we are settin
For example, when doing 'df[col].method(value, inplace=True)', try using 'df.method({col: value}, inplace=True)' or df[col] = df[c

a['MonthlyIncome'].fillna(a['MonthlyIncome'].median(),inplace=True)

a.drop('CustomerID',axis=1)

	ProdTaken	Age	TypeofContact	CityTier	DurationOfPitch	Occupation	Gender	NumberOfPersonVisiting	NumberOfFollowups	Pro
0	1	41.0	Self Enquiry	3	6.0	Salaried	Female	3	3.0	
1	0	49.0	Company Invited	1	14.0	Salaried	Male	3	4.0	
2	1	37.0	Self Enquiry	1	8.0	Free Lancer	Male	3	4.0	
3	0	33.0	Company Invited	1	9.0	Salaried	Female	2	3.0	

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4888 rows × 19 columns

[14] a['Visiting']=a['NumberOfPersonVisiting']+a['NumberOfChildrenVisiting']

a.drop(['NumberOfPersonVisiting','NumberOfChildrenVisiting'],axis=1)

	CustomerID	ProdTaken	Age	TypeofContact	CityTier	DurationOfPitch	Occupation	Gender	NumberOfFollowups	ProductPitched
0	200000	1	41.0	Self Enquiry	3	6.0	Salaried	Female	3.0	Deluxe
1	200001	0	49.0	Company Invited	1	14.0	Salaried	Male	4.0	Deluxe
2	200002	1	37.0	Self Enquiry	1	8.0	Free Lancer	Male	4.0	Basic
3	200003	0	33.0	Company Invited	1	9.0	Salaried	Female	3.0	Basic
4	200004	0	36.0	Self Enquiry	1	8.0	Small Business	Male	3.0	Basic
...
4883	204883	1	49.0	Self Enquiry	3	9.0	Small Business	Male	5.0	Deluxe

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```
c=a.drop(['ProdTaken','CustomerID'],axis=1)
c
```

	Age	TypeofContact	CityTier	DurationOfPitch	Occupation	Gender	NumberOfPersonVisiting	NumberOfFollowups	ProductPitched
0	41.0	Self Enquiry	3	6.0	Salaried	Female	3	3.0	Deluxe
1	49.0	Company Invited	1	14.0	Salaried	Male	3	4.0	Deluxe
2	37.0	Self Enquiry	1	8.0	Free Lancer	Male	3	4.0	Basic
3	33.0	Company Invited	1	9.0	Salaried	Female	2	3.0	Basic
4	36.0	Self Enquiry	1	8.0	Small Business	Male	2	3.0	Basic
...
4883	49.0	Self Enquiry	3	9.0	Small Business	Male	3	5.0	Deluxe
4884	28.0	Company	1	31.0	Salaried	Male	4	5.0	Basic

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Travel.csv

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0s

```
d=a['ProdTaken']
d
```

ProdTaken	
0	1
1	0
2	1
3	0
4	0
...	...
4883	1
4884	1
4885	1
4886	1

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ML practice

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Files

- sample_data
- Travel.csv
- cardexho_imputed.csv

Code

```
dtype: int64

[18] from sklearn.model_selection import train_test_split
x_train,x_test,y_train,y_test=train_test_split(c,d,test_size=0.3)

[19] from sklearn.preprocessing import StandardScaler
from sklearn.preprocessing import OneHotEncoder
from sklearn.compose import ColumnTransformer
e=c.select_dtypes(include='object').columns
f=c.select_dtypes(exclude='object').columns
g=StandardScaler()
h=OneHotEncoder(drop='first')
i=ColumnTransformer([('OneHotEncoder',h,e),('StandardScaler',g,f)])

[20] c=i.fit_transform(c)

[23] x_train,x_test,y_train,y_test=train_test_split(c,d,test_size=0.3)

[24] from sklearn.ensemble import RandomForestClassifier
from sklearn.tree import DecisionTreeClassifier
from xgboost import XGBClassifier
```

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```
from sklearn.tree import DecisionTreeClassifier
from xgboost import XGBClassifier
from sklearn.linear_model import LogisticRegression
from sklearn.metrics import accuracy_score, classification_report, ConfusionMatrixDisplay, f1_score, precision_score, recall_score, roc_auc_score
g={'LogisticRegression':LogisticRegression(), 'RandomForestClassifier':RandomForestClassifier(), 'DecisionTreeClassifier':DecisionTreeClassifier(), 'XGBClassifier':XGBClassifier()}
for ii in range(len(g)):
    h=list(g.values())[ii]
    h.fit(x_train,y_train)
    m=h.predict(x_train)
    n=h.predict(x_test)
    s=accuracy_score(y_train,m)
    t=f1_score(y_train,m,average='weighted')
    u=precision_score(y_train,m)
    v=recall_score(y_train,m)
    w=roc_auc_score(y_train,m)
    ss=accuracy_score(y_test,n)
    tt=f1_score(y_test,n,average='weighted')
    uu=precision_score(y_test,n)
    vv=recall_score(y_test,n)
    ww=roc_auc_score(y_test,n)
    print(list(g.keys())[ii])
    print('trainingset')
    print('accuracy',s)
    print('f1',t)
    print('precision',u)
```

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Files

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```
print(testset)
print('accuracy',ss)
print('f1',tt)
print('precision',uu)
print('recall',vv)
print('roc',ww)
print('='*35)
print('\n')
```

LogisticRegression
trainingset
accuracy 0.8421514177141187
f1 0.815983240800249
precision 0.6868327402135231
recall 0.2992248062015504
roc 0.6337622590085562

testset
accuracy 0.8493524199045671
f1 0.8257950896446682
precision 0.7142857142857143
recall 0.32727272727272727
roc 0.648535692495424

RandomForestClassifier
trainingset

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Files

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Code

```
[26] ps={'max_depth':[5,8,15,None,10], 'max_features':[5,7,'auto',8], 'min_samples_split':[2,8,15,20], 'n_estimators':[100,200,500,1000]}
      xgb={'learning_rate':[0.1,0.01], 'max_depth':[5,8,12,20,30], 'n_estimators':[100,200,300], 'colsample_bytree':[0.5,0.8,1,0.3,0.4]}

[27] hg=[('rf', RandomForestClassifier(), ps), ('XGB', XGBClassifier(), xgb)]
      hg

[('rf',
  RandomForestClassifier(),
  {'max_depth': [5, 8, 15, None, 10],
   'max_features': [5, 7, 'auto', 8],
   'min_samples_split': [2, 8, 15, 20],
   'n_estimators': [100, 200, 500, 1000]}),
 ('XGB',
  XGBClassifier(base_score=None, booster=None, callbacks=None,
               colsample_bylevel=None, colsample_bynode=None,
               colsample_bytree=None, device=None, early_stopping_rounds=None,
               enable_categorical=False, eval_metric=None, feature_types=None,
               gamma=None, grow_policy=None, importance_type=None,
               interaction_constraints=None, learning_rate=None, max_bin=None,
               max_cat_threshold=None, max_cat_to_onehot=None,
               max_delta_step=None, max_depth=None, max_leaves=None,
               min_child_weight=None, missing=nan, monotone_constraints=None,
```

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Files

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```
'n_estimators': [100, 200, 300],  
'colsample_bytree': [0.5, 0.8, 1, 0.3, 0.4]]]  
  
g={'RandomForest':RandomForestClassifier(n_estimators=100,min_samples_split=2,max_features=7,max_depth=None),'XGBClassifier':XGBClassifier(  
for ii in range(len(list(g))):  
    h=list(g.values())[ii]  
    h.fit(x_train,y_train)  
    m=h.predict(x_train)  
    n=h.predict(x_test)  
    s=accuracy_score(y_train,m)  
    t=f1_score(y_train,m,average='weighted')  
    u=precision_score(y_train,m)  
    v=recall_score(y_train,m)  
    w=roc_auc_score(y_train,m)  
    ss=accuracy_score(y_test,n)  
    tt=f1_score(y_test,n,average='weighted')  
    uu=precision_score(y_test,n)  
    vv=recall_score(y_test,n)  
    ww=roc_auc_score(y_test,n)  
    print(list(g.keys())[ii])  
    print('trainingset')  
    print('accuracy',s)  
    print('f1',t)  
    print('precision',u)  
    print('recall',v)
```

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```
import matplotlib.pyplot as plt
from sklearn.metrics import roc_curve
plt.figure()
dd=[{'label':'XGBClassifier','model':XGBClassifier(learning_rate=0.1,max_depth=5,n_estimators=100,colsample_bytree=0.5),'auc':0.7}
for roo in dd:
    ghf=roo['model']
    ghf.fit(x_train,y_train)
    fpr,tpr,thresholds=roc_curve(y_test,ghf.predict_proba(x_test)[:,-1])
    plt.plot(fpr,tpr,label='%s roc(area=%0.2f)'%(roo['label'],roo['auc']))
    plt.plot([0,1],[0,1],'-r-')
    plt.xlim([0.0,1.0])
    plt.ylim([0.0,1.05])
    plt.xlabel('x')
    plt.ylabel('y')
    plt.legend()
    plt.show()
```

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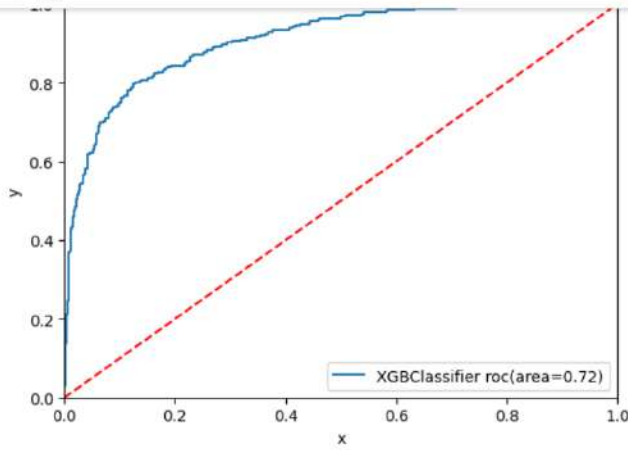
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```
[31] import pandas as pd
a=pd.read_csv('cardekho_imputed.csv')
a
```

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```
import pandas as pd
a=pd.read_csv('cardekho_imputed.csv')
a
```

	Unnamed: 0	car_name	brand	model	min_cost_price	max_cost_price	vehicle_age	km_driven	seller_type	fuel_type	trans
0	0	Maruti Alto	Maruti	Alto	3.570039e+05	4.654015e+05	9	120000	Individual	Petrol	
1	1	Hyundai Grand	Hyundai	Grand	7.110000e+05	7.480000e+05	5	20000	Individual	Petrol	
2	2	Hyundai i20	Hyundai	i20	8.540829e+05	1.307926e+06	11	60000	Individual	Petrol	
3	3	Maruti Alto	Maruti	Alto	3.570039e+05	4.654015e+05	9	37000	Individual	Petrol	
4	4	Ford Ecosport	Ford	Ecosport	1.014000e+06	1.379000e+06	6	30000	Dealer	Diesel	

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Teams and Channels | General

Machine Learning - Colab

ML practice - Colab

XGBoost Parameters — xgboost

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ML practice

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Files

sample_dataTravel.csvcardekho_imputed.csv

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+ Code+ Text

Next steps: [View recommended plots](#) [New interactive sheet](#)

```
[32] a.drop(['Unnamed: 0', 'car_name', 'brand'], axis=1, inplace=True)

[33] b=a.drop('selling_price', axis=1)
      b
```

	model	min_cost_price	max_cost_price	vehicle_age	km_driven	seller_type	fuel_type	transmission_type	mileage	engine
0	Alto	3.570039e+05	4.654015e+05	9	120000	Individual	Petrol	Manual	19.70	796
1	Grand	7.110000e+05	7.480000e+05	5	20000	Individual	Petrol	Manual	18.90	1197
2	i20	8.540829e+05	1.307926e+06	11	60000	Individual	Petrol	Manual	17.00	1197
3	Alto	3.570039e+05	4.654015e+05	9	37000	Individual	Petrol	Manual	20.92	998
4	Ecosport	1.014000e+06	1.379000e+06	6	30000	Dealer	Diesel	Manual	22.77	1498
...
15406	i10	6.983200e+05	7.283333e+05	9	10723	Dealer	Petrol	Manual	19.81	1086
15407	Ertiga	9.267760e+05	1.149968e+06	2	18000	Dealer	Petrol	Manual	17.50	1373

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ML practice

File Edit View Insert Runtime Tools Help All changes saved

Files

- sample_data
- Travel.csv
- cardexho_imputed.csv

Code

```
c=a['selling_price']  
c
```

	selling_price
0	120000
1	550000
2	215000
3	226000
4	570000
...	...
15406	250000
15407	925000
15408	425000
15409	1225000
15410	1200000

15411 rows x 1 column

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Teams and Channels | General | Machine Learning - Colab | ML practice - Colab | XGBoost Parameters — xgboos

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ML practice

File Edit View Insert Runtime Tools Help All changes saved

Files

sample_data
Travel.csv
cardekho_imputed.csv

+ Code + Text

15410 1200000
15411 rows x 1 columns

dtype: int64

[35]

from sklearn.model_selection import train_test_split
x_train,x_test,y_train,y_test=train_test_split(b,c,test_size=0.3)

0s

from sklearn.preprocessing import LabelEncoder
z=LabelEncoder()
b['model']=z.fit_transform(b['model'])
b

model min_cost_price max_cost_price vehicle_age km_driven seller_type fuel_type transmission_type mileage engine

0

7

3.570039e+05

4.654015e+05

9

120000

Individual

Petrol

Manual

19.70

796

1

54

7.110000e+05

7.480000e+05

5

20000

Individual

Petrol

Manual

18.90

1197

2

118

8.540829e+05

1.307926e+06

11

60000

Individual

Petrol

Manual

17.00

1197

3

7

3.570039e+05

4.654015e+05

9

37000

Individual

Petrol

Manual

20.92

998

4

38

1.014000e+06

1.379000e+06

6

30000

Dealer

Diesel

Manual

22.77

1498

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2

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