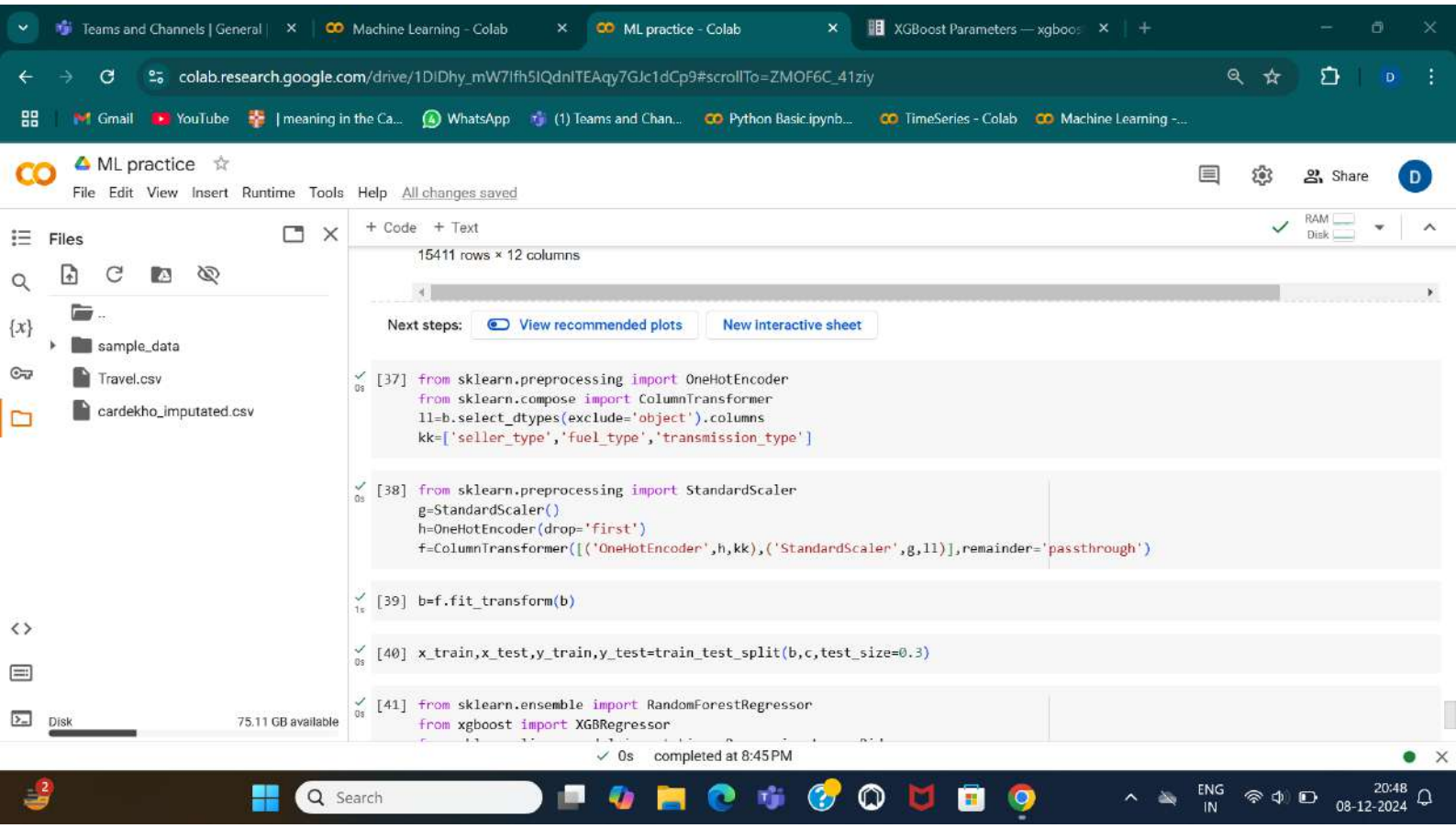
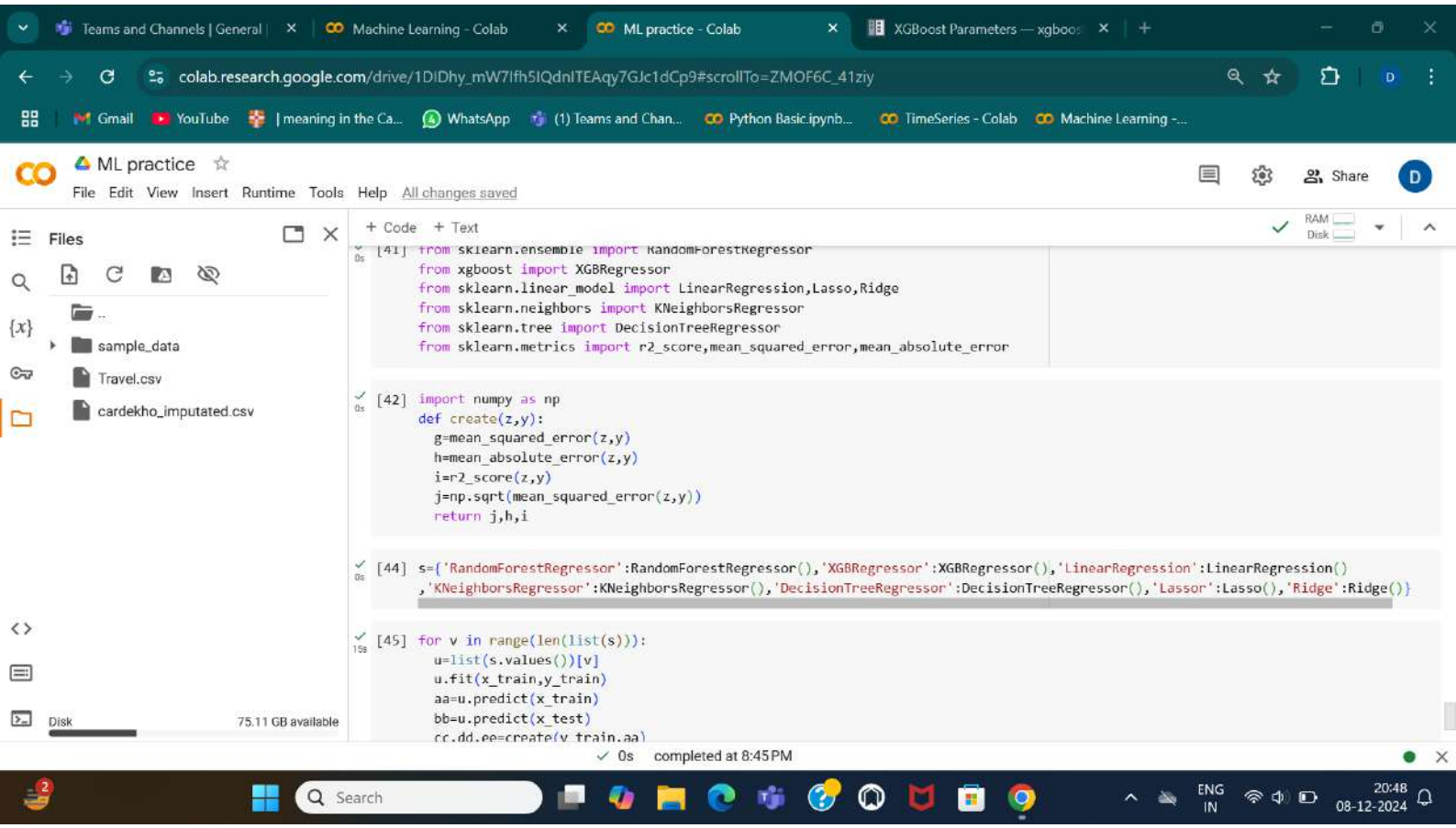

Teams and Channels | General
Machine Learning - Colab
ML practice - Colab
XGBoost Parameters — xgboos
colab.research.google.com/drive/1DIDhy_mW7Ifh5IQdnITEAqy7GJc1dCp9#scrollTo=ZMOF6C_41ziy
Gmail
YouTube
| meaning in the Ca...
WhatsApp
(1) Teams and Chan...
Python Basic.ipynb...
TimeSeries - Colab
Machine Learning -...
ML practice
File Edit View Insert Runtime Tools Help All changes saved
Share
Files
sample_data
Travel.csv
cardekho_imputated.csv
Disk 75.11 GB available
+ Code + Text
RAM
Disk
15411 rows × 12 columns
Next steps: View recommended plots New interactive sheet
[37] from sklearn.preprocessing import OneHotEncoder
from sklearn.compose import ColumnTransformer
ll=b.select_dtypes(exclude='object').columns
kk=['seller_type','fuel_type','transmission_type']
[38] from sklearn.preprocessing import StandardScaler
g=StandardScaler()
h=OneHotEncoder(drop='first')
f=ColumnTransformer([('OneHotEncoder',h,kk),('StandardScaler',g,ll)],remainder='passthrough')
[39] b=f.fit_transform(b)
[40] x_train,x_test,y_train,y_test=train_test_split(b,c,test_size=0.3)
[41] from sklearn.ensemble import RandomForestRegressor
from xgboost import XGBRegressor
0s completed at 8:45PM
Search
ENG
IN
20:48
08-12-2024


Teams and Channels | General
Machine Learning - Colab
ML practice - Colab
XGBoost Parameters — xgboos
colab.research.google.com/drive/1DIDhy_mW7Ifh5IQdnITEAqy7GJc1dCp9#scrollTo=ZMOF6C_41ziy
Gmail
YouTube
| meaning in the Ca...
WhatsApp
(1) Teams and Chan...
Python Basic.ipynb...
TimeSeries - Colab
Machine Learning -...
ML practice
File Edit View Insert Runtime Tools Help All changes saved
Share
Files
sample_data
Travel.csv
cardekho_imputated.csv
Disk 75.11 GB available
+ Code + Text
RAM
Disk
[41] from sklearn.ensemble import RandomForestRegressor
from xgboost import XGBRegressor
from sklearn.linear_model import LinearRegression,Lasso,Ridge
from sklearn.neighbors import KNeighborsRegressor
from sklearn.tree import DecisionTreeRegressor
from sklearn.metrics import r2_score,mean_squared_error,mean_absolute_error
[42] import numpy as np
def create(z,y):
g=mean_squared_error(z,y)
h=mean_absolute_error(z,y)
i=r2_score(z,y)
j=np.sqrt(mean_squared_error(z,y))
return j,h,i
[44] s={'RandomForestRegressor':RandomForestRegressor(),'XGBRegressor':XGBRegressor(),'LinearRegression':LinearRegression()
,'KNeighborsRegressor':KNeighborsRegressor(),'DecisionTreeRegressor':DecisionTreeRegressor(),'Lassor':Lasso(),'Ridge':Ridge()}
[45] for v in range(len(list(s))):
u=list(s.values())[v]
u.fit(x_train,y_train)
aa=u.predict(x_train)
bb=u.predict(x_test)
cc,dd,ee=create(y_train,aa)
0s completed at 8:45PM
Search
ENG
IN
20:48
08-12-2024

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

colab.research.google.com/drive/1DIDhy_mW7Ifh5IQdnITEAqy7GJc1dCp9#scrollTo=ZMOF6C_41ziy

Gmail YouTube | meaning in the Ca... WhatsApp (1) Teams and Chan... Python Basic.ipynb... TimeSeries - Colab Machine Learning -...

ML practice

File Edit View Insert Runtime Tools Help All changes saved

Share

Files

..
sample_data
Travel.csv
cardekho_imputated.csv

Disk 75.11 GB available

+ Code + Text

RAM Disk

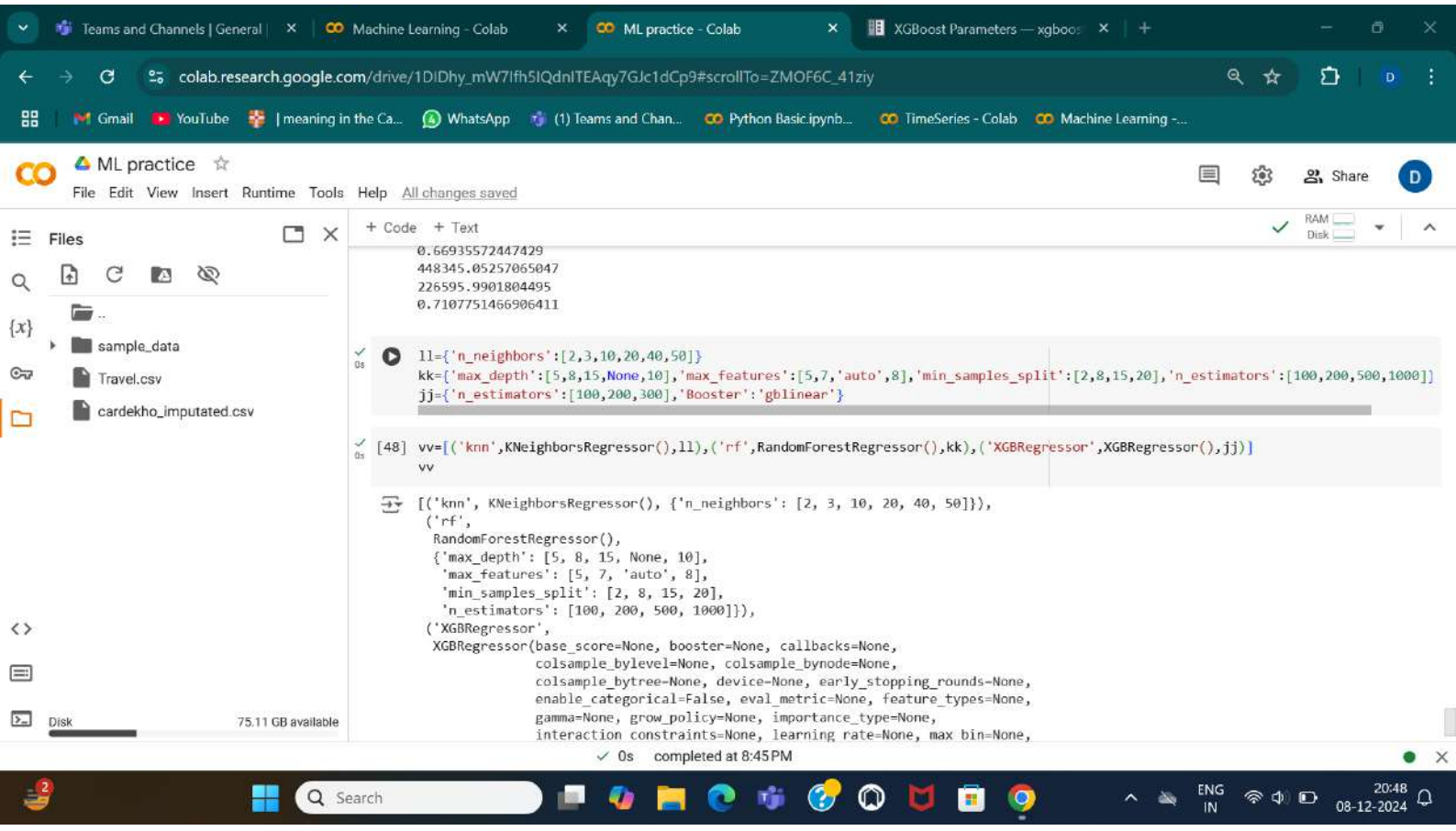
```
for v in range(len(list(s))):
  u=list(s.values())[v]
  u.fit(x_train,y_train)
  aa=u.predict(x_train)
  bb=u.predict(x_test)
  cc,dd,ee=create(y_train,aa)
  ff,gg,hh=create(y_test,bb)
  print(list(s.keys())[v])
  print(cc)
  print(dd)
  print(ee)
  print(ff)
  print(gg)
  print(hh)
```

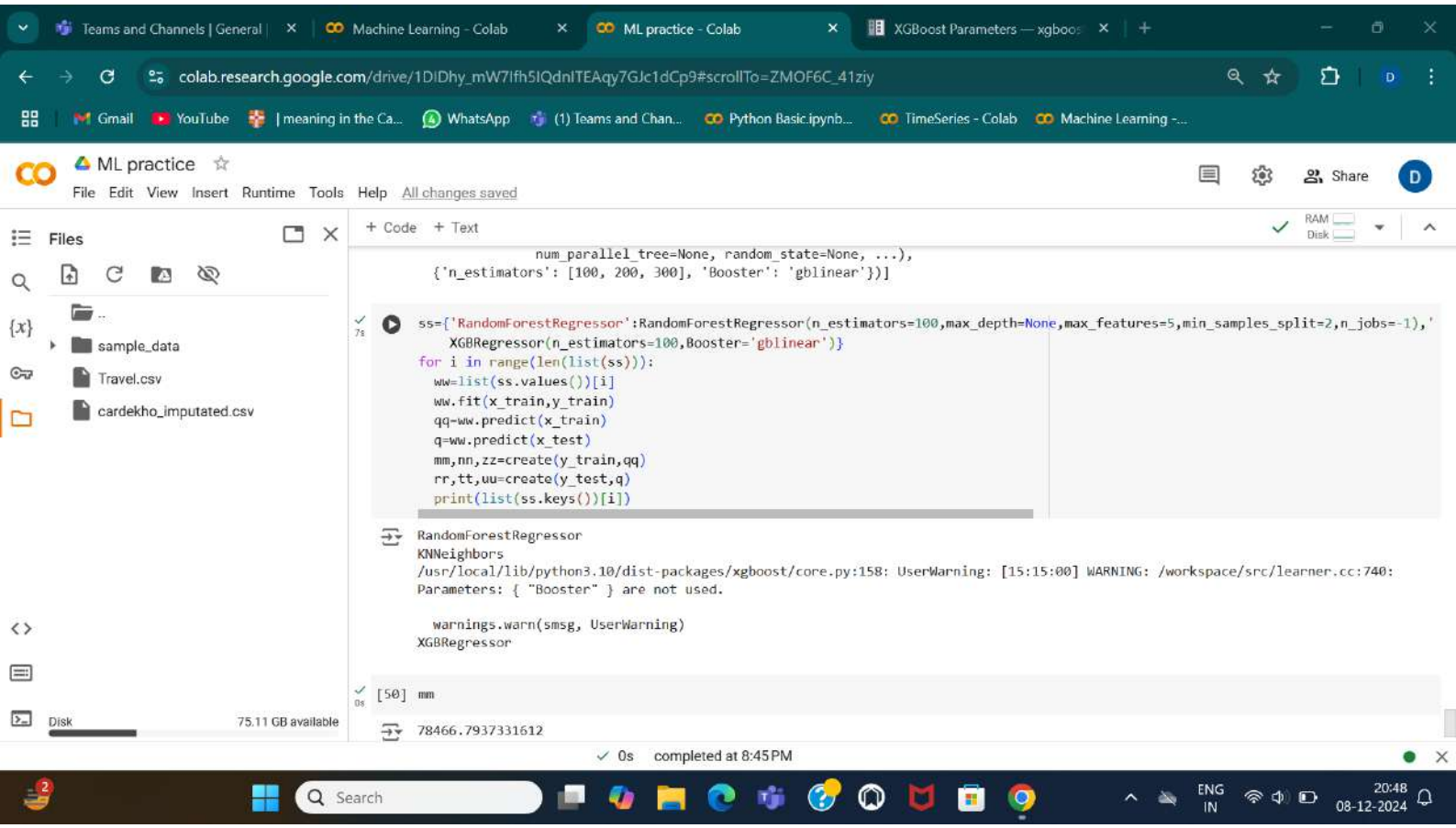
```
RandomForestRegressor
144762.96131369044
35024.58754221016
0.9751752154614022
204810.2566210973
88654.43909942542
0.9396448616941485
XGBRegressor
78466.7937331612
```

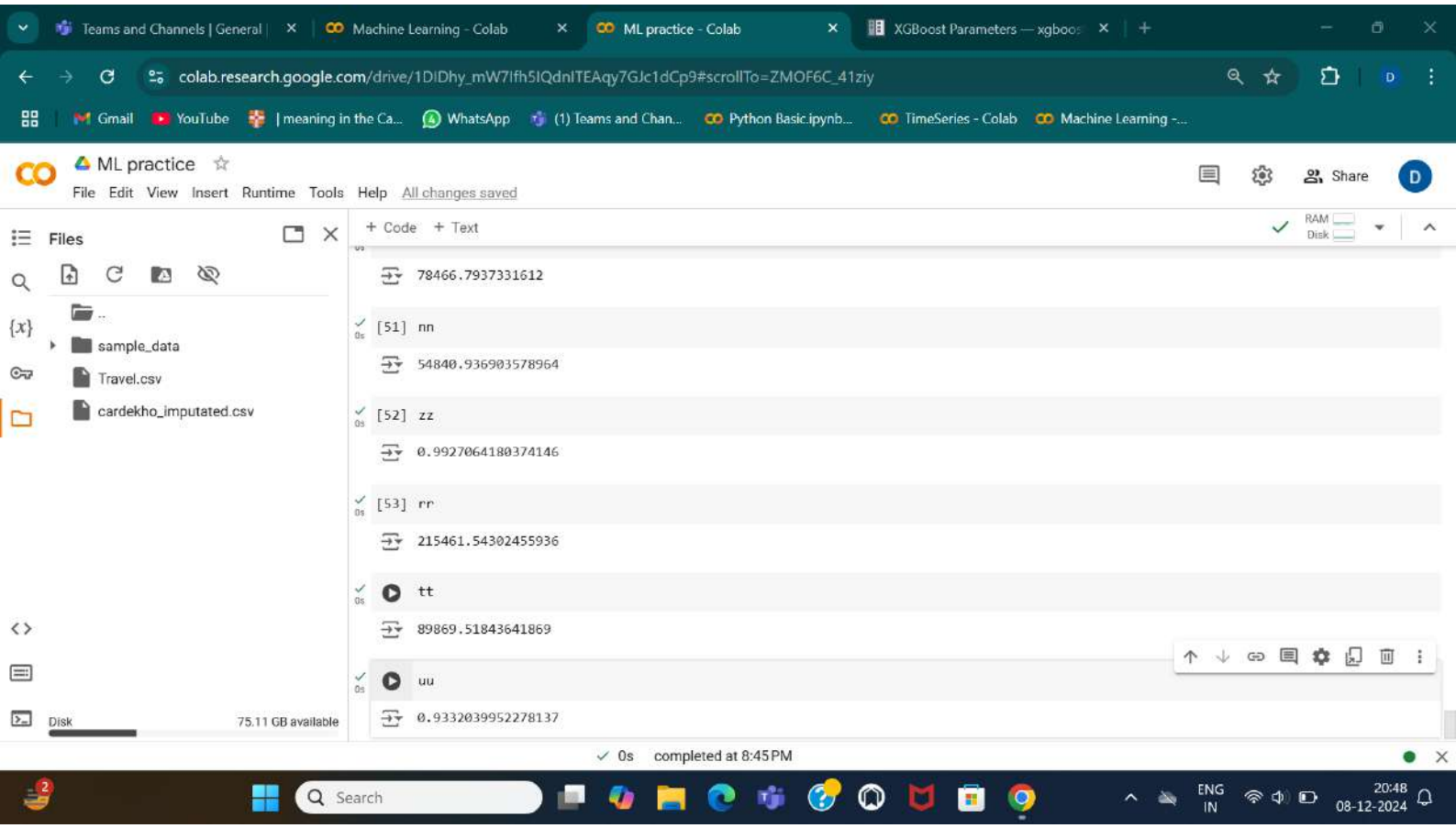
0s completed at 8:45PM

Search

ENG IN 20:48 08-12-2024


Teams and Channels | General
Machine Learning - Colab
ML practice - Colab
XGBoost Parameters — xgboos
colab.research.google.com/drive/1DIDhy_mW7Ifh5IQdnITEAqy7GJc1dCp9#scrollTo=ZMOF6C_41ziy
Gmail
YouTube
| meaning in the Ca...
WhatsApp
(1) Teams and Chan...
Python Basic.ipynb...
TimeSeries - Colab
Machine Learning -...
ML practice
File Edit View Insert Runtime Tools Help All changes saved
Share
Files
sample_data
Travel.csv
cardekho_imputated.csv
Disk 75.11 GB available
+ Code + Text
RAM
Disk
0.66935572447429
448345.05257065047
226595.9901804495
0.7107751466906411
ll={'n_neighbors':[2,3,10,20,40,50]}
kk={'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]}
jj={'n_estimators':[100,200,300],'Booster':'gblinear'}
[48] vv=[('knn',KNeighborsRegressor(),ll),('rf',RandomForestRegressor(),kk),('XGBRegressor',XGBRegressor(),jj)]
vv
[('knn', KNeighborsRegressor(), {'n_neighbors': [2, 3, 10, 20, 40, 50]}),
('rf',
RandomForestRegressor(),
{'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]}),
('XGBRegressor',
XGBRegressor(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,
0s completed at 8:45PM
Search
ENG
IN
20:48
08-12-2024


Teams and Channels | General
Machine Learning - Colab
ML practice - Colab
XGBoost Parameters — xgboos
colab.research.google.com/drive/1DlDhy_mW7Ifh5IQdnITEAqy7GJc1dCp9#scrollTo=ZMOF6C_41ziy
Gmail
YouTube
| meaning in the Ca...
WhatsApp
(1) Teams and Chan...
Python Basic.ipynb...
TimeSeries - Colab
Machine Learning -...
ML practice
File Edit View Insert Runtime Tools Help All changes saved
Share
Files
sample_data
Travel.csv
cardekho_imputated.csv
Disk 75.11 GB available
+ Code + Text
RAM
Disk
num_parallel_tree=None, random_state=None, ...),
{'n_estimators': [100, 200, 300], 'Booster': 'gblinear'})]
ss={'RandomForestRegressor':RandomForestRegressor(n_estimators=100,max_depth=None,max_features=5,min_samples_split=2,n_jobs=-1),'
XGBRegressor(n_estimators=100,Booster='gblinear')}
for i in range(len(list(ss))):
ww=list(ss.values())[i]
ww.fit(x_train,y_train)
qq=ww.predict(x_train)
q=ww.predict(x_test)
mm,nn,zz=create(y_train,qq)
rr,tt,uu=create(y_test,q)
print(list(ss.keys())[i])
RandomForestRegressor
KNNeighbors
/usr/local/lib/python3.10/dist-packages/xgboost/core.py:158: UserWarning: [15:15:00] WARNING: /workspace/src/learner.cc:740:
Parameters: { "Booster" } are not used.
warnings.warn(smsg, UserWarning)
XGBRegressor
[50] mm
78466.7937331612
0s completed at 8:45PM
Search
ENG
IN
20:48
08-12-2024


Teams and Channels | General
Machine Learning - Colab
ML practice - Colab
XGBoost Parameters — xgboos
colab.research.google.com/drive/1DlDhy_mW7Ifh5lQdnlTEAqy7GJc1dCp9#scrollTo=ZMOF6C_41ziy
Gmail
YouTube
| meaning in the Ca...
WhatsApp
(1) Teams and Chan...
Python Basic.ipynb...
TimeSeries - Colab
Machine Learning -...
ML practice
File Edit View Insert Runtime Tools Help All changes saved
Share
Files
+ Code + Text
RAM
Disk
..
sample_data
Travel.csv
cardekho_imputated.csv
78466.7937331612
[51] nn
54840.936903578964
[52] zz
0.9927064180374146
[53] rr
215461.54302455936
tt
89869.51843641869
uu
0.9332039952278137
Disk 75.11 GB available
0s completed at 8:45PM
Search
ENG
IN
20:48
08-12-2024