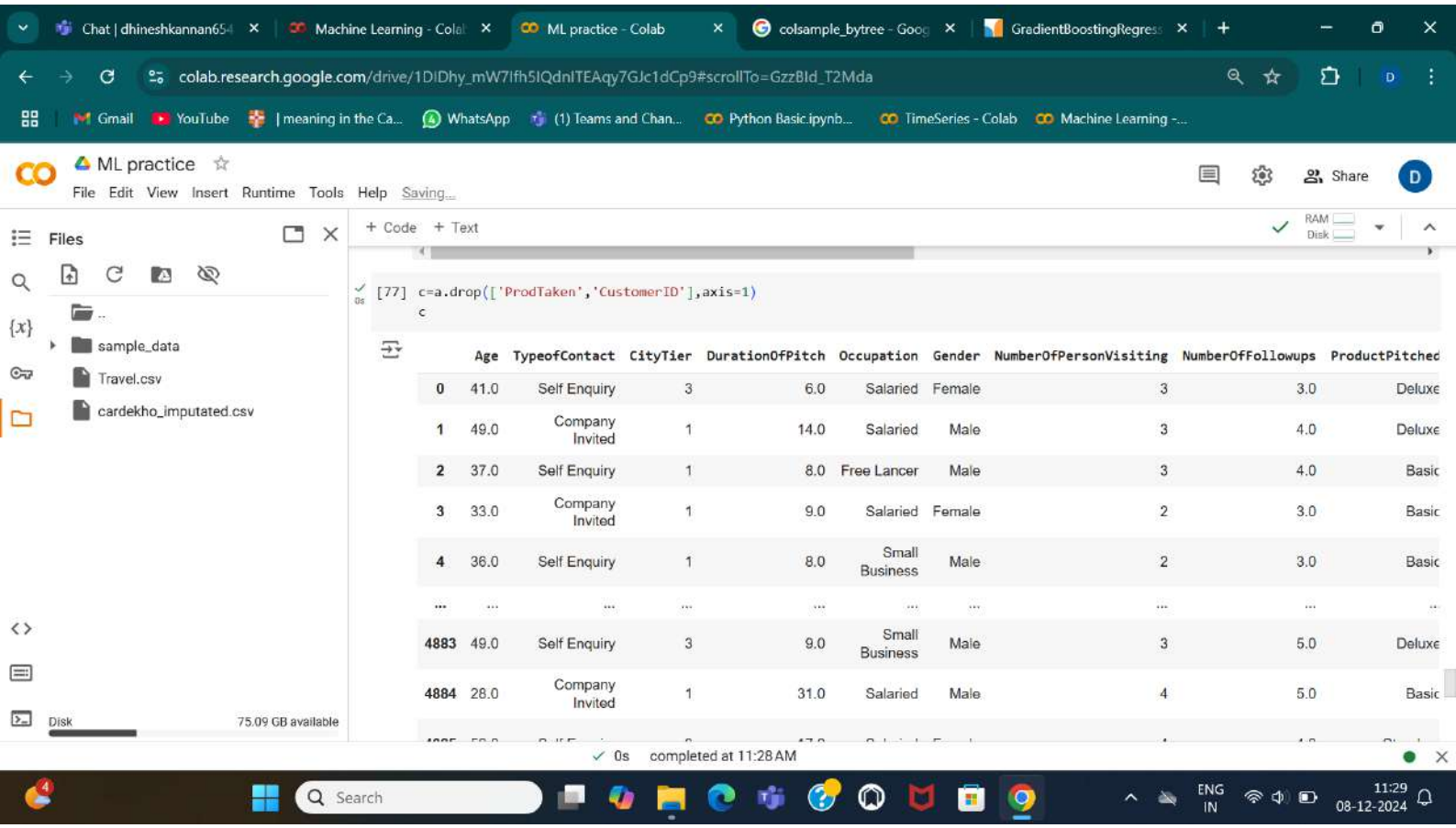
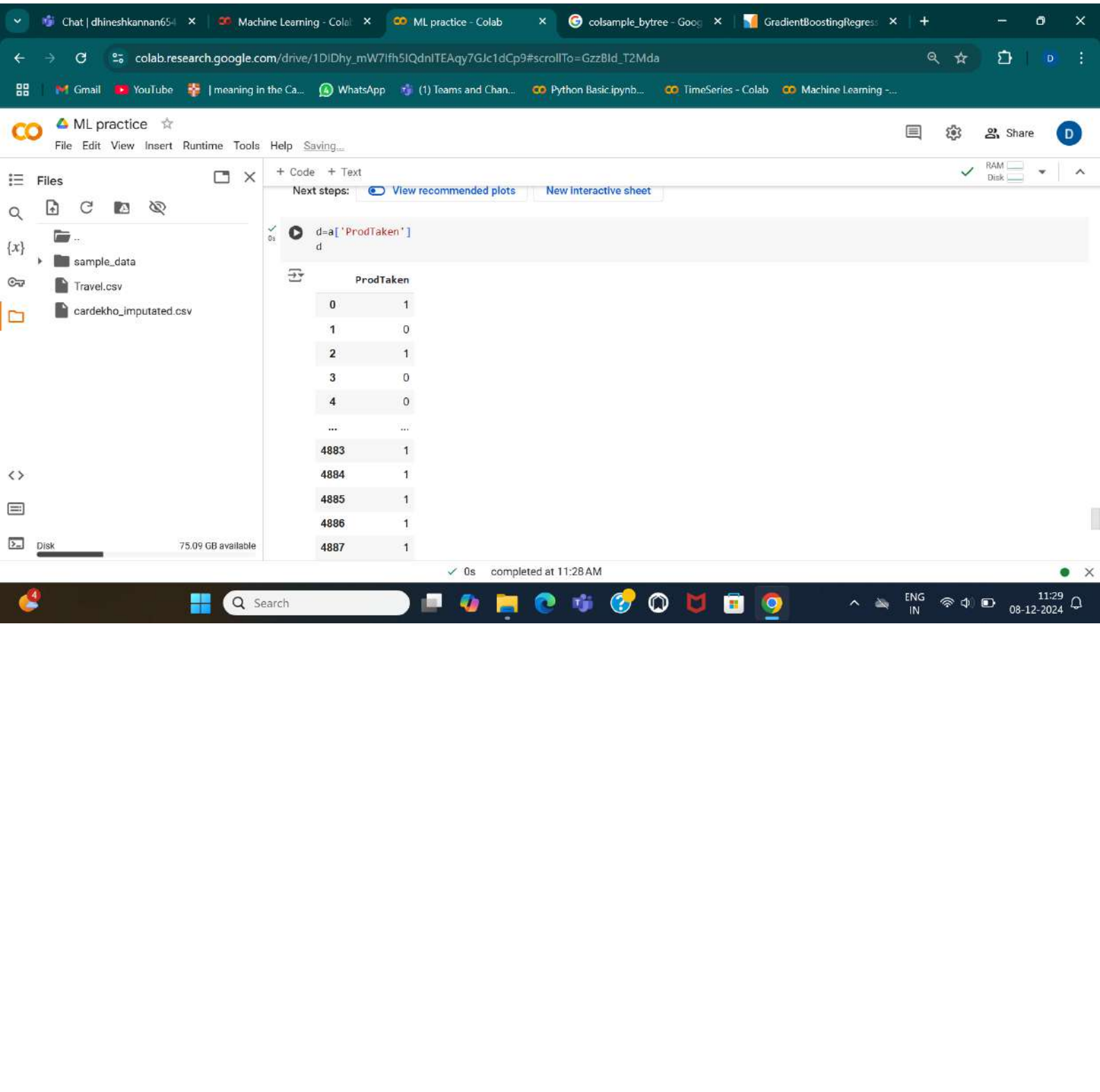


	Age	TypeofContact	CityTier	DurationOfPitch	Occupation	Gender	NumberOfPersonVisiting	NumberOfFollowups	ProductPitched
0	41.0	Self Enquiry	3	6.0	Salaried	Female	3	3.0	Deluxe
1	49.0	Company Invited	1	14.0	Salaried	Male	3	4.0	Deluxe
2	37.0	Self Enquiry	1	8.0	Free Lancer	Male	3	4.0	Basic
3	33.0	Company Invited	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 Invited	1	31.0	Salaried	Male	4	5.0	Basic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d=a['ProdTaken']
d
ProdTaken
0 1
1 0
2 1
3 0
4 0
... ...
4883 1
4884 1
4885 1
4886 1
4887 1
0s completed at 11:28 AM
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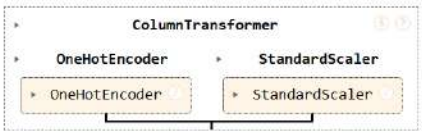
```
[79] from sklearn.model_selection import train_test_split
     x_train,x_test,y_train,y_test=train_test_split(c,d,test_size=0.3)
```

```
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')
ct=ColumnTransformer([('OneHotEncoder',h,e),('StandardScaler',g,f)])
```

```
[84] ct
```




```
[85] c=ct.fit_transform(c)
```

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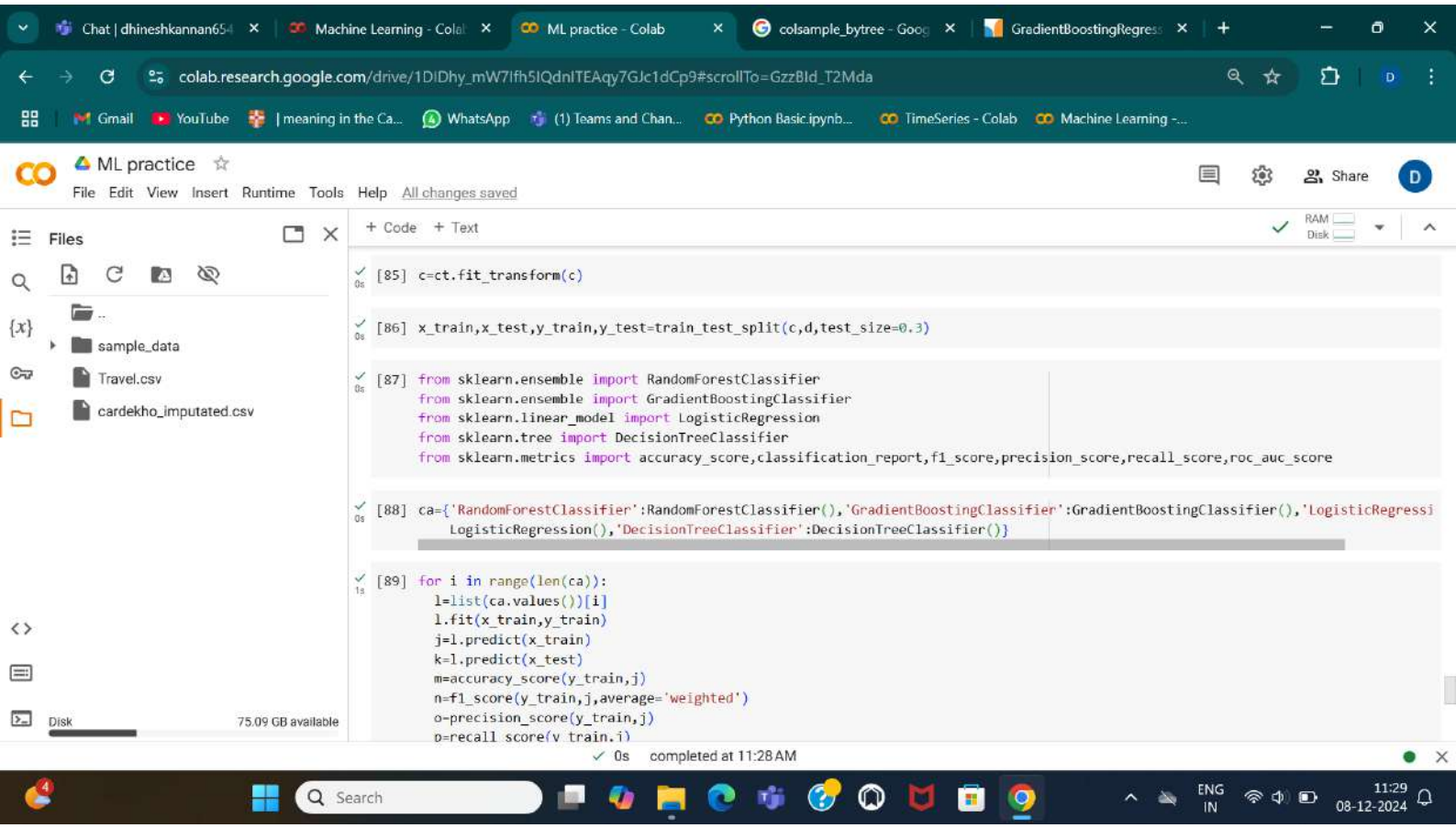
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[85] c=ct.fit_transform(c)
[86] x_train,x_test,y_train,y_test=train_test_split(c,d,test_size=0.3)
[87] from sklearn.ensemble import RandomForestClassifier
from sklearn.ensemble import GradientBoostingClassifier
from sklearn.linear_model import LogisticRegression
from sklearn.tree import DecisionTreeClassifier
from sklearn.metrics import accuracy_score,classification_report,f1_score,precision_score,recall_score,roc_auc_score
[88] ca={'RandomForestClassifier':RandomForestClassifier(),'GradientBoostingClassifier':GradientBoostingClassifier(),'LogisticRegressi
LogisticRegression(),'DecisionTreeClassifier':DecisionTreeClassifier()}
[89] for i in range(len(ca)):
l=list(ca.values())[i]
l.fit(x_train,y_train)
j=l.predict(x_train)
k=l.predict(x_test)
m=accuracy_score(y_train,j)
n=f1_score(y_train,j,average='weighted')
o=precision_score(y_train,j)
p=recall_score(y_train,j)
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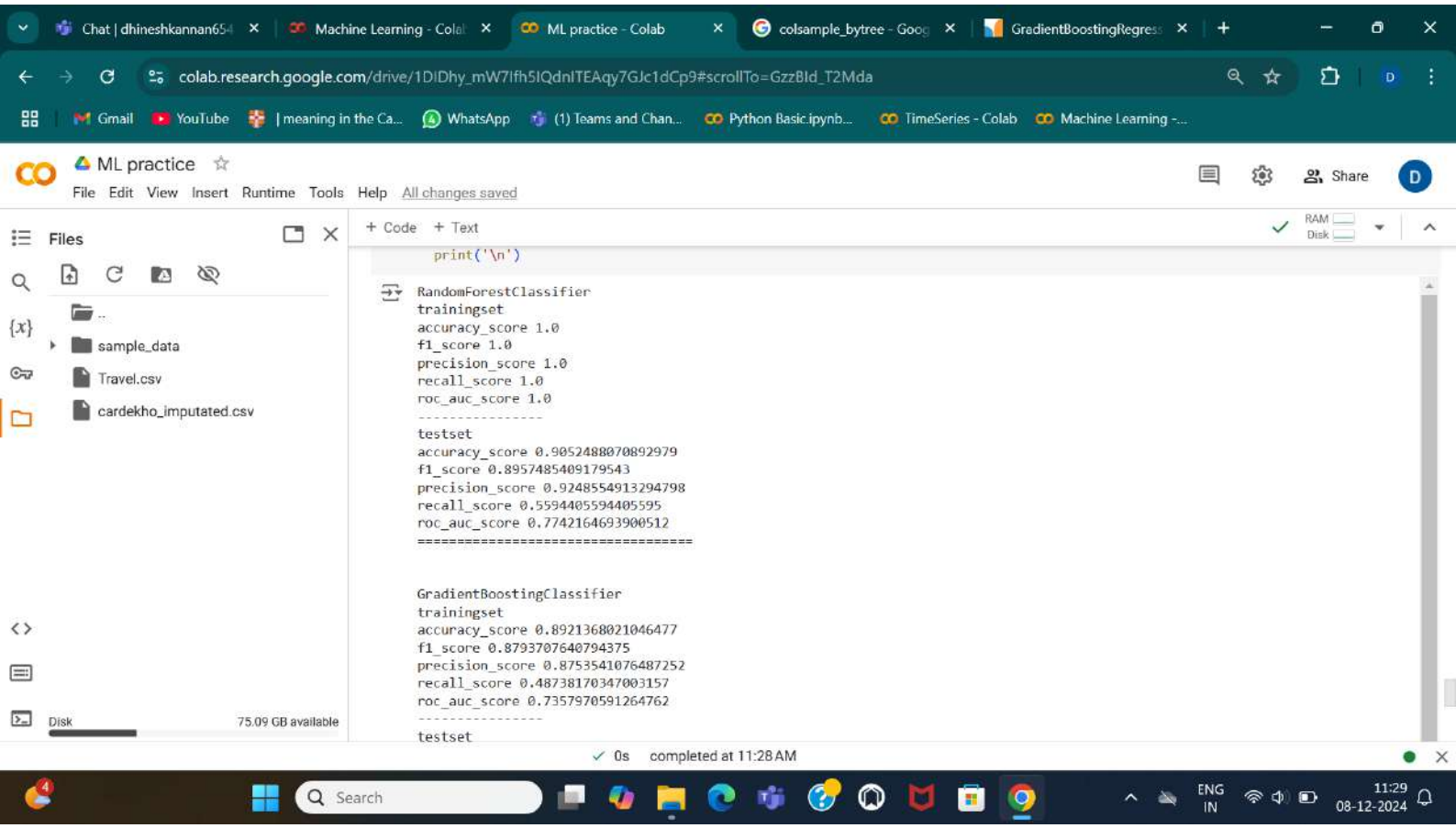
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print('\n')
RandomForestClassifier
trainingset
accuracy_score 1.0
f1_score 1.0
precision_score 1.0
recall_score 1.0
roc_auc_score 1.0
testset
accuracy_score 0.9052488070892979
f1_score 0.8957485409179543
precision_score 0.9248554913294798
recall_score 0.5594405594405595
roc_auc_score 0.7742164693900512
GradientBoostingClassifier
trainingset
accuracy_score 0.8921368021046477
f1_score 0.8793707640794375
precision_score 0.8753541076487252
recall_score 0.48738170347003157
roc_auc_score 0.7357970591264762
testset
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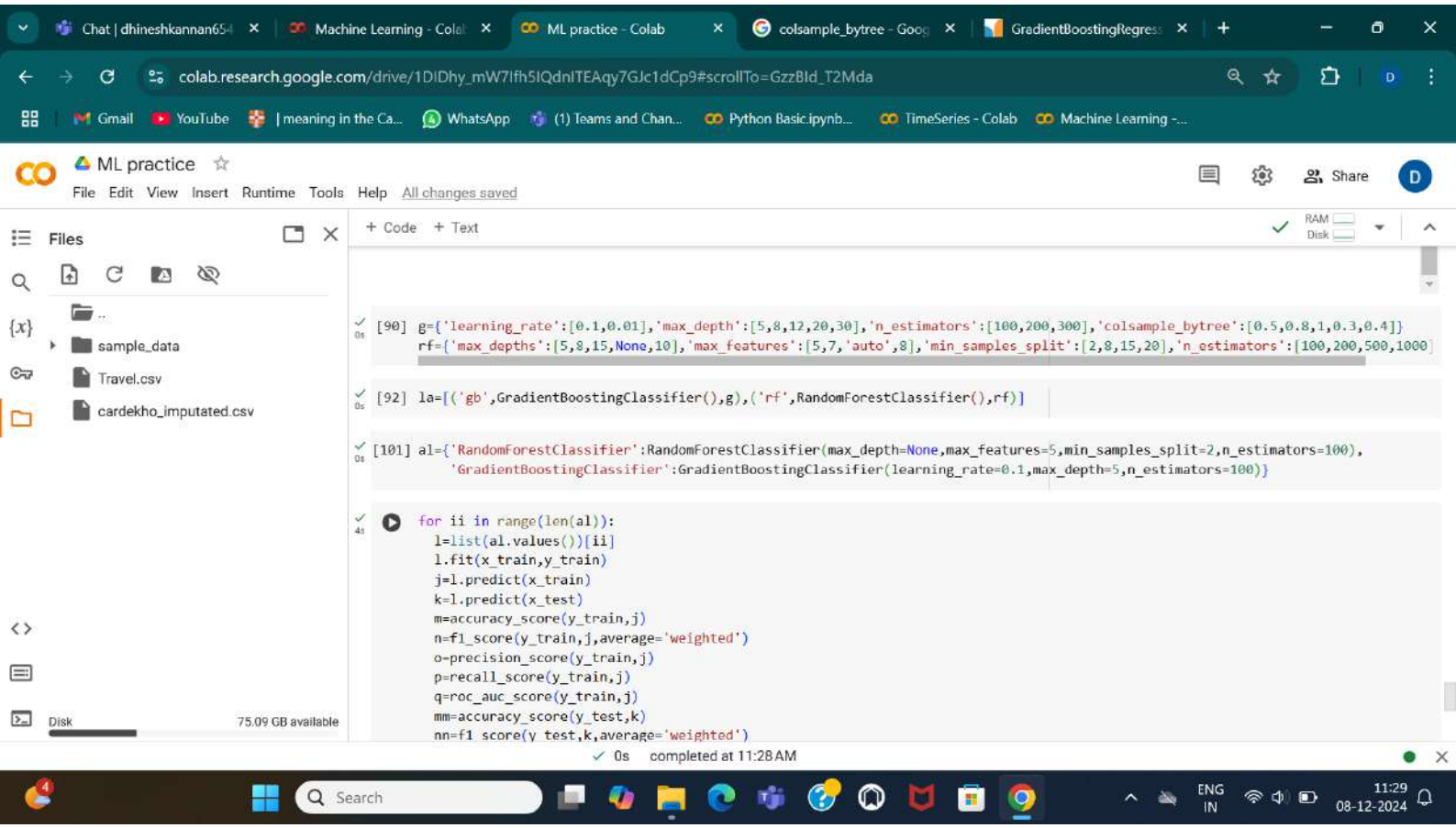
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[90] g={'learning_rate':[0.1,0.01],'max_depth':[5,8,12,20,30],'n_estimators':[100,200,300],'colsample_bytree':[0.5,0.8,1,0.3,0.4]}
rf={'max_depths':[5,8,15,None,10],'max_features':[5,7,'auto',8],'min_samples_split':[2,8,15,20],'n_estimators':[100,200,500,1000]
[92] la=[('gb',GradientBoostingClassifier(),g),('rf',RandomForestClassifier(),rf)]
[101] al={'RandomForestClassifier':RandomForestClassifier(max_depth=None,max_features=5,min_samples_split=2,n_estimators=100),
'GradientBoostingClassifier':GradientBoostingClassifier(learning_rate=0.1,max_depth=5,n_estimators=100)}
for ii in range(len(al)):
l=list(al.values())[ii]
l.fit(x_train,y_train)
j=l.predict(x_train)
k=l.predict(x_test)
m=accuracy_score(y_train,j)
n=f1_score(y_train,j,average='weighted')
o=precision_score(y_train,j)
p=recall_score(y_train,j)
q=roc_auc_score(y_train,j)
mm=accuracy_score(y_test,k)
nn=f1_score(y_test,k,average='weighted')
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```
print('recall_score',pp)
print('roc_auc_score',qq)
print('-'*35)
print('\n')
```

```
RandomForestClassifier
trainingset
accuracy_score 1.0
f1_score 1.0
precision_score 1.0
recall_score 1.0
roc_auc_score 1.0
----------------
testset
accuracy_score 0.907293796864349
f1_score 0.8972287483897368
precision_score 0.9518072289156626
recall_score 0.8524475524475524
roc_auc_score 0.7728368160205586
===================================


GradientBoostingClassifier
trainingset
accuracy_score 0.9611224788073662
f1_score 0.9595766043679971
precision_score 0.9826589595375722
recall_score 0.9044164037854889
```

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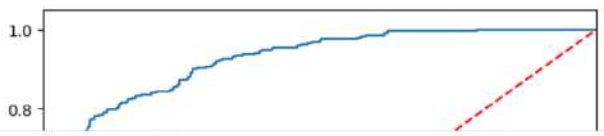
```
import matplotlib.pyplot as plt
from sklearn.metrics import roc_curve
plt.figure()
dd=[{'label':'GradientBoostingClassifier','model':GradientBoostingClassifier(learning_rate=0.1,max_depth=5,n_estimators=100),'auc
for roo in dd:
  ghf=roo['model']
  ghf.fit(x_train,y_train)
  fpr,tpr,thresholds=roc_curve(y_test,ghf.predict_proba(x_test)[:,1])
  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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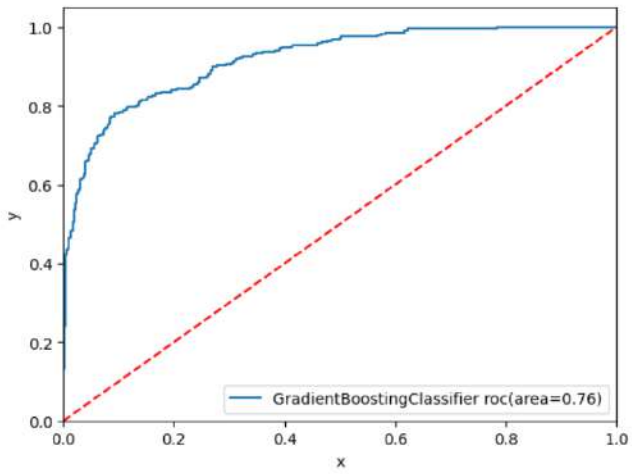
```
plt.show()
```



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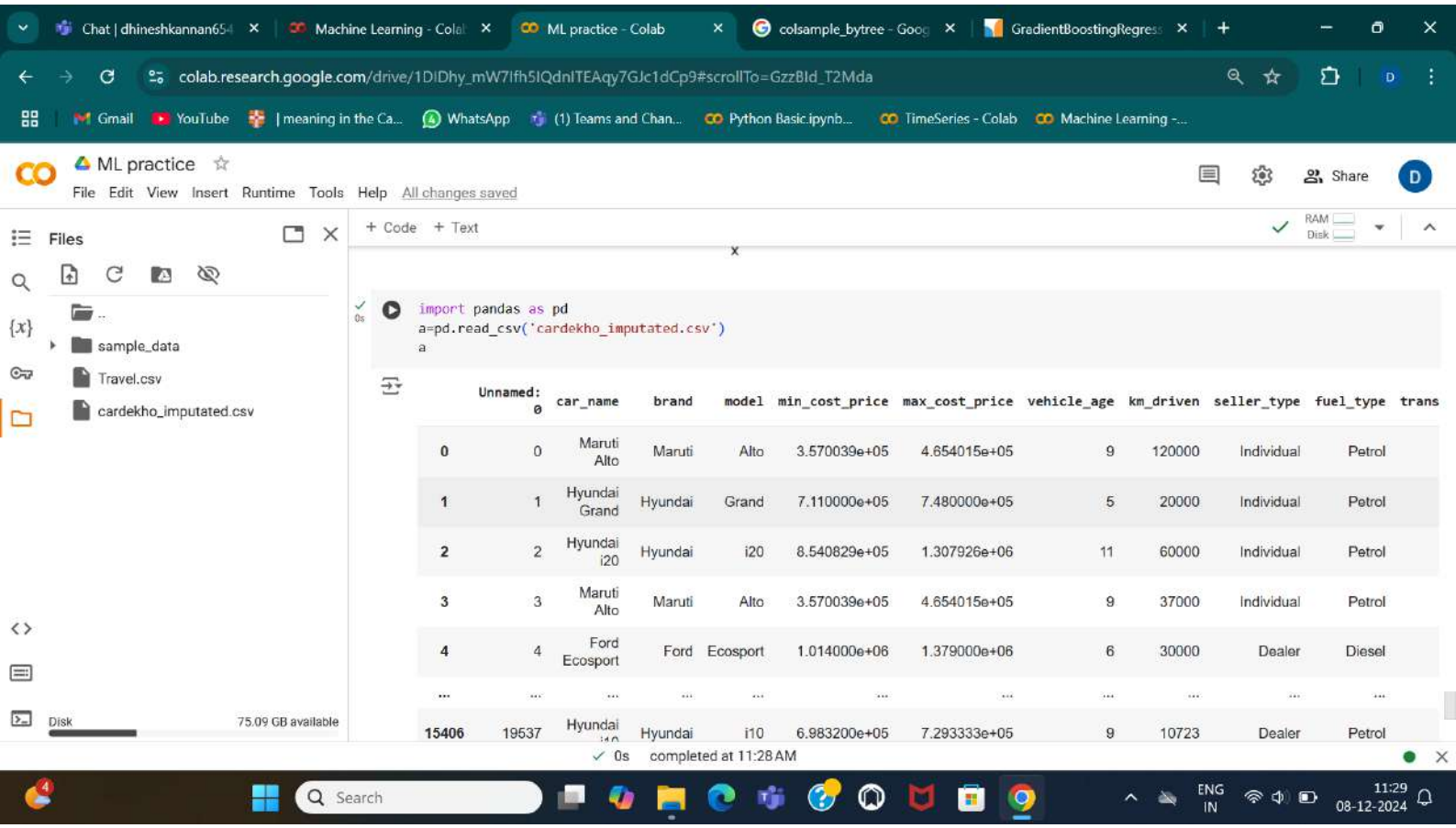
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import pandas as pd
a=pd.read_csv('cardekho_imputated.csv')
a
Unnamed: 0 car_name brand model min_cost_price max_cost_price vehicle_age km_driven seller_type fuel_type trans
0 0 Maruti Alto Maruti Alto 3.570039e+05 4.654015e+05 9 120000 Individual 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
... ...
15406 19537 Hyundai Hyundai i10 6.983200e+05 7.293333e+05 9 10723 Dealer Petrol
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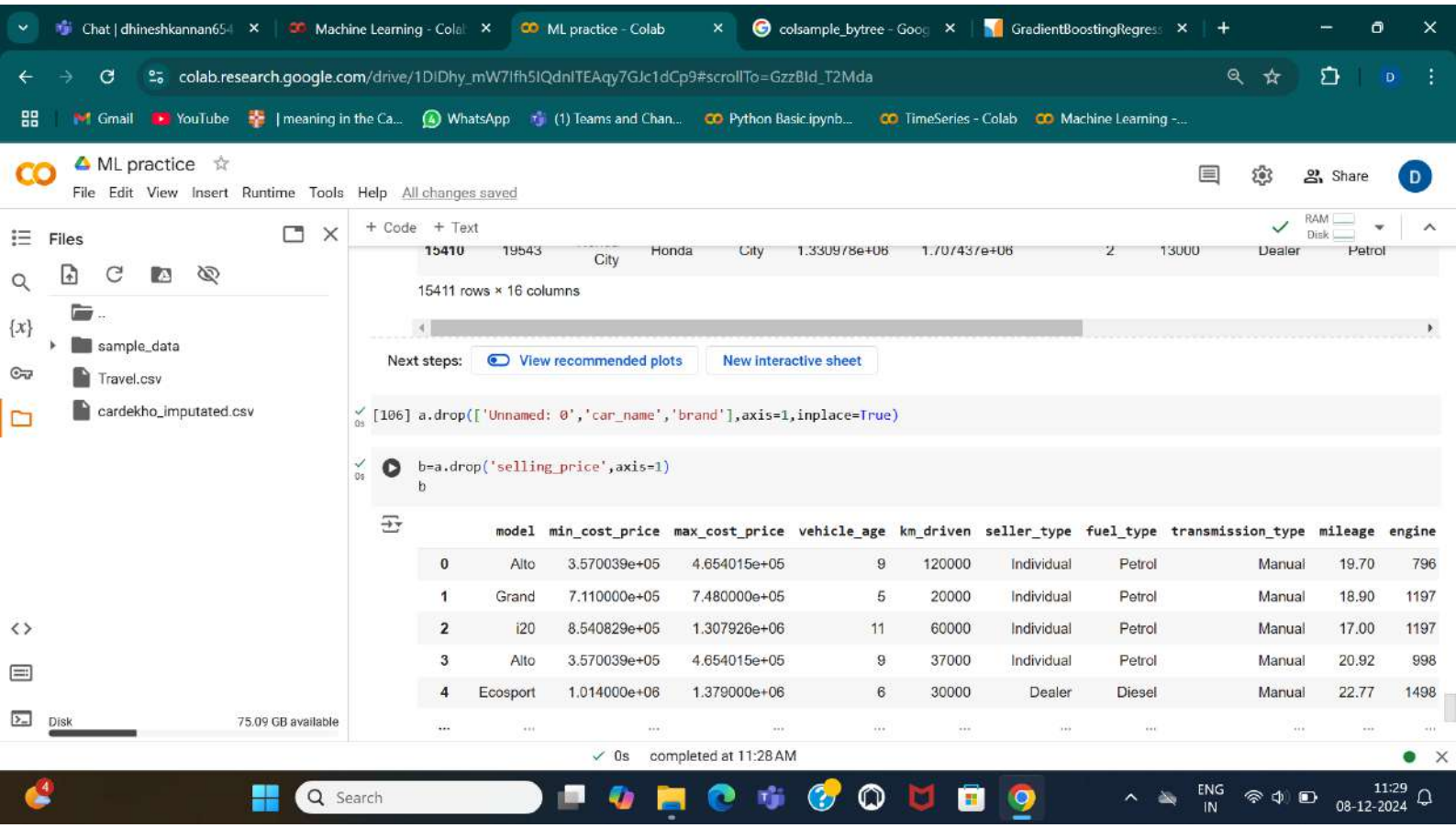
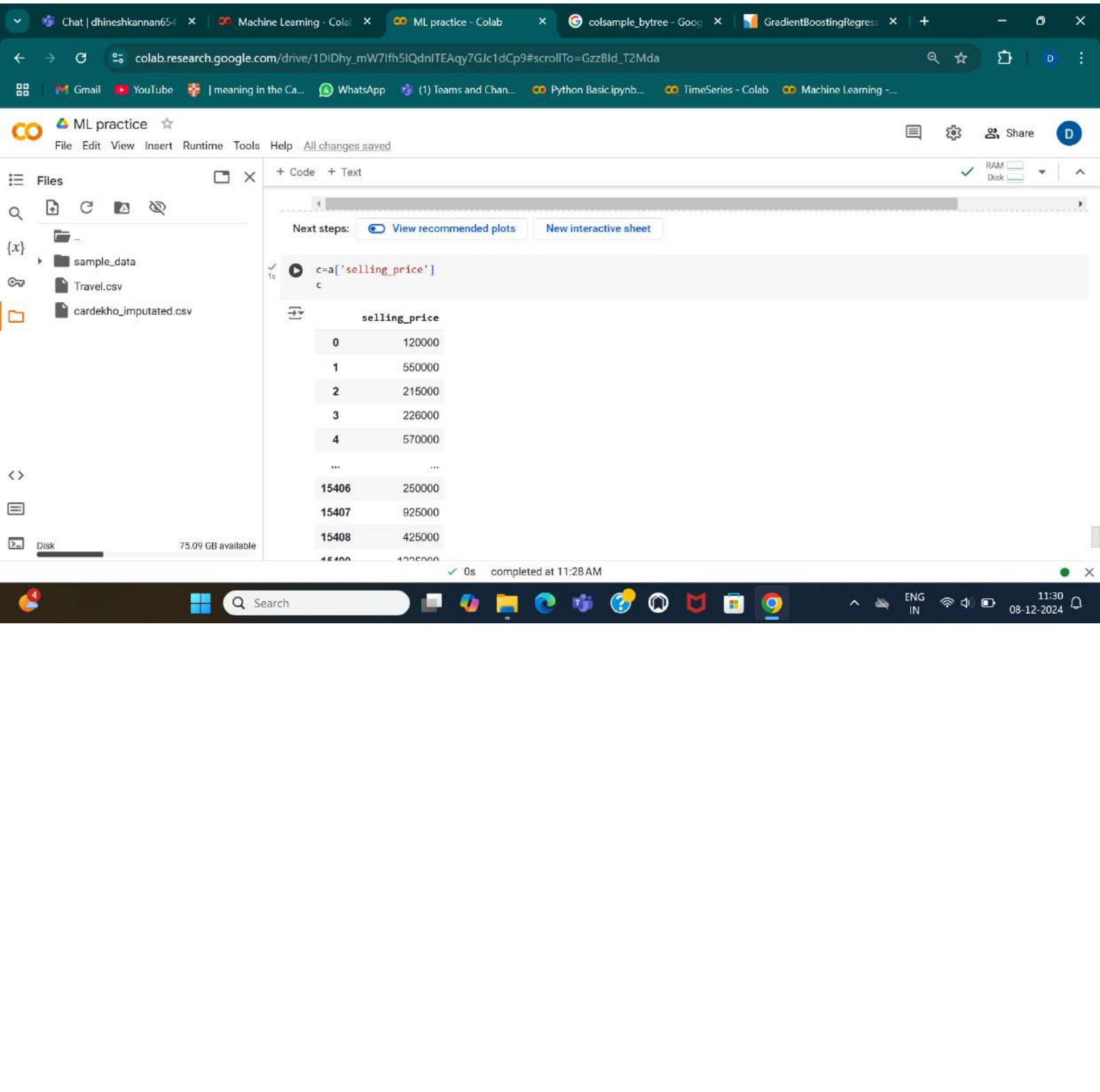


	model	min_cost_price	max_cost_price	vehicle_age	km_driven	seller_type	fuel_type	transmission_type	mileage	engine
0	Alto	3.570039e+05	4.654015e+05	9	120000	Individual	Petrol	Manual	19.70	796
1	Grand	7.110000e+05	7.480000e+05	5	20000	Individual	Petrol	Manual	18.90	1197
2	i20	8.540829e+05	1.307926e+06	11	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
...	...	...	...	...	...	...	...	...	...	...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c=a['selling_price']
c
selling_price
0 120000
1 550000
2 215000
3 226000
4 570000
15406 250000
15407 925000
15408 425000
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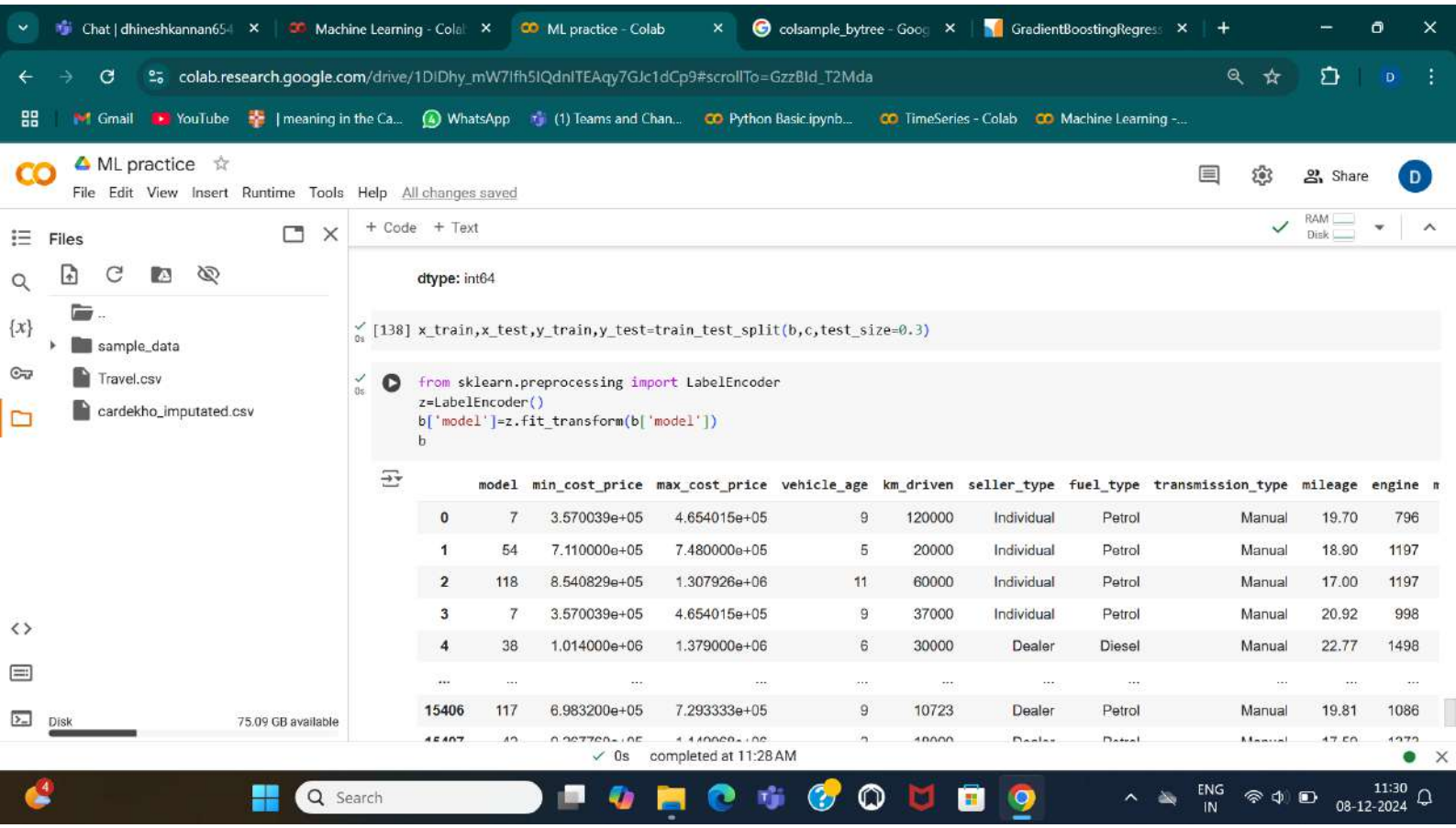

	model	min_cost_price	max_cost_price	vehicle_age	km_driven	seller_type	fuel_type	transmission_type	mileage	engine	n
0	7	3.570039e+05	4.654015e+05	9	120000	Individual	Petrol	Manual	19.70	796	
1	54	7.110000e+05	7.480000e+05	5	20000	Individual	Petrol	Manual	18.90	1197	
2	118	8.540829e+05	1.307926e+06	11	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	
...	...	...	...	...	...	...	...	...	...	...	...
15406	117	6.983200e+05	7.293333e+05	9	10723	Dealer	Petrol	Manual	19.81	1086	

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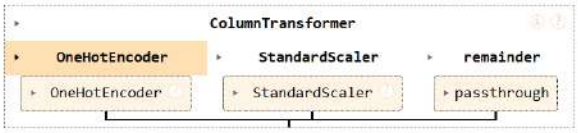
```
[140] l=b.select_dtypes(exclude='object').columns
      k=['seller_type','fuel_type','transmission_type']
      s=StandardScaler()
      o=OneHotEncoder(drop='first')
      ct=ColumnTransformer([('OneHotEncoder',o,k),('StandardScaler',s,l)],remainder='passthrough')
```

```
ct
```




```
[141] b=ct.fit_transform(b)
```

```
[146] x_train,x_test,y_train,y_test=train_test_split(b,c,test_size=0.3)
```

```
[151] from sklearn.ensemble import RandomForestRegressor
```

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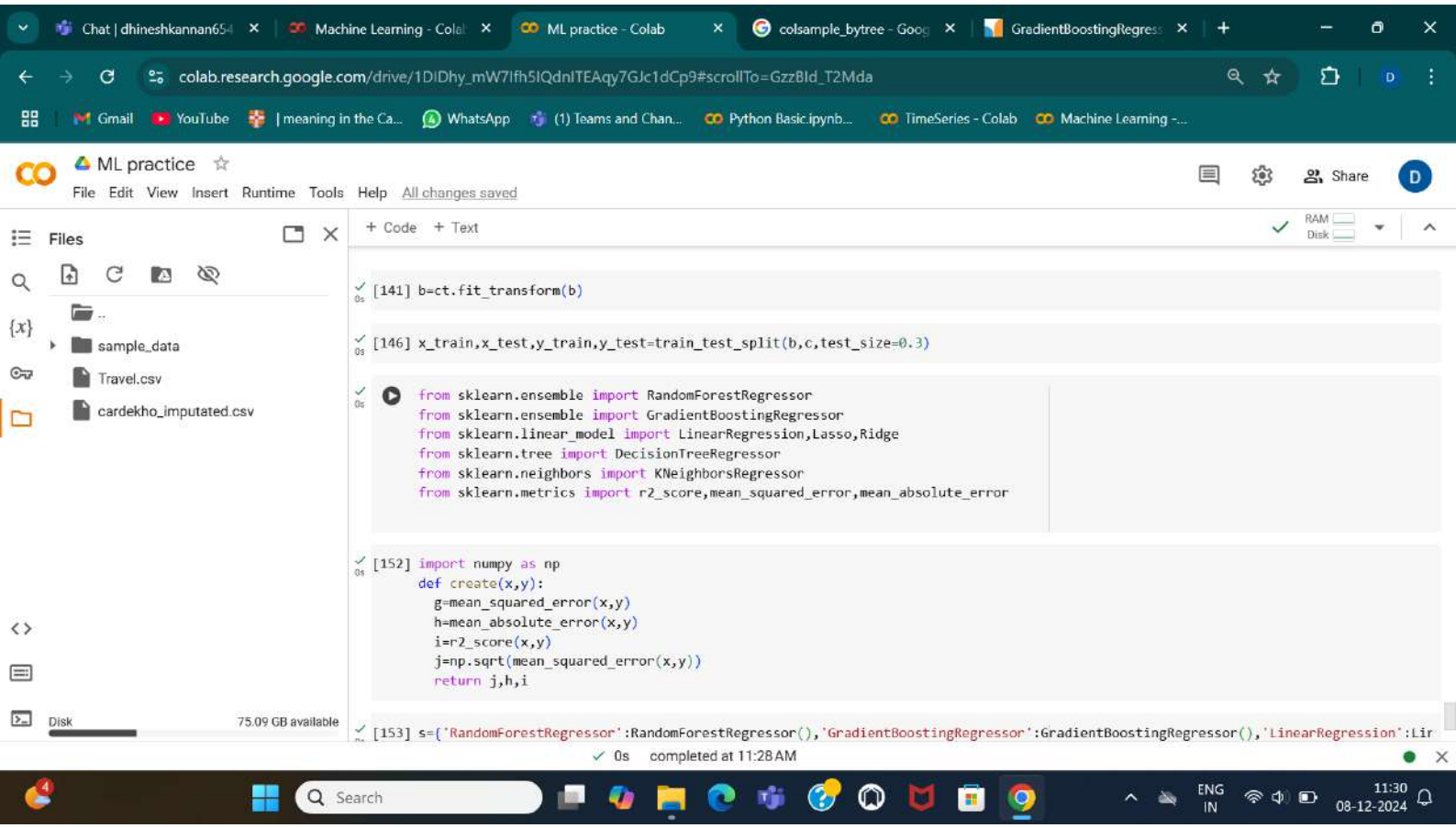
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[141] b=ct.fit_transform(b)
[146] x_train,x_test,y_train,y_test=train_test_split(b,c,test_size=0.3)
from sklearn.ensemble import RandomForestRegressor
from sklearn.ensemble import GradientBoostingRegressor
from sklearn.linear_model import LinearRegression,Lasso,Ridge
from sklearn.tree import DecisionTreeRegressor
from sklearn.neighbors import KNeighborsRegressor
from sklearn.metrics import r2_score,mean_squared_error,mean_absolute_error
[152] import numpy as np
def create(x,y):
g=mean_squared_error(x,y)
h=mean_absolute_error(x,y)
i=r2_score(x,y)
j=np.sqrt(mean_squared_error(x,y))
return j,h,i
[153] s={'RandomForestRegressor':RandomForestRegressor(),'GradientBoostingRegressor':GradientBoostingRegressor(),'LinearRegression':Lir
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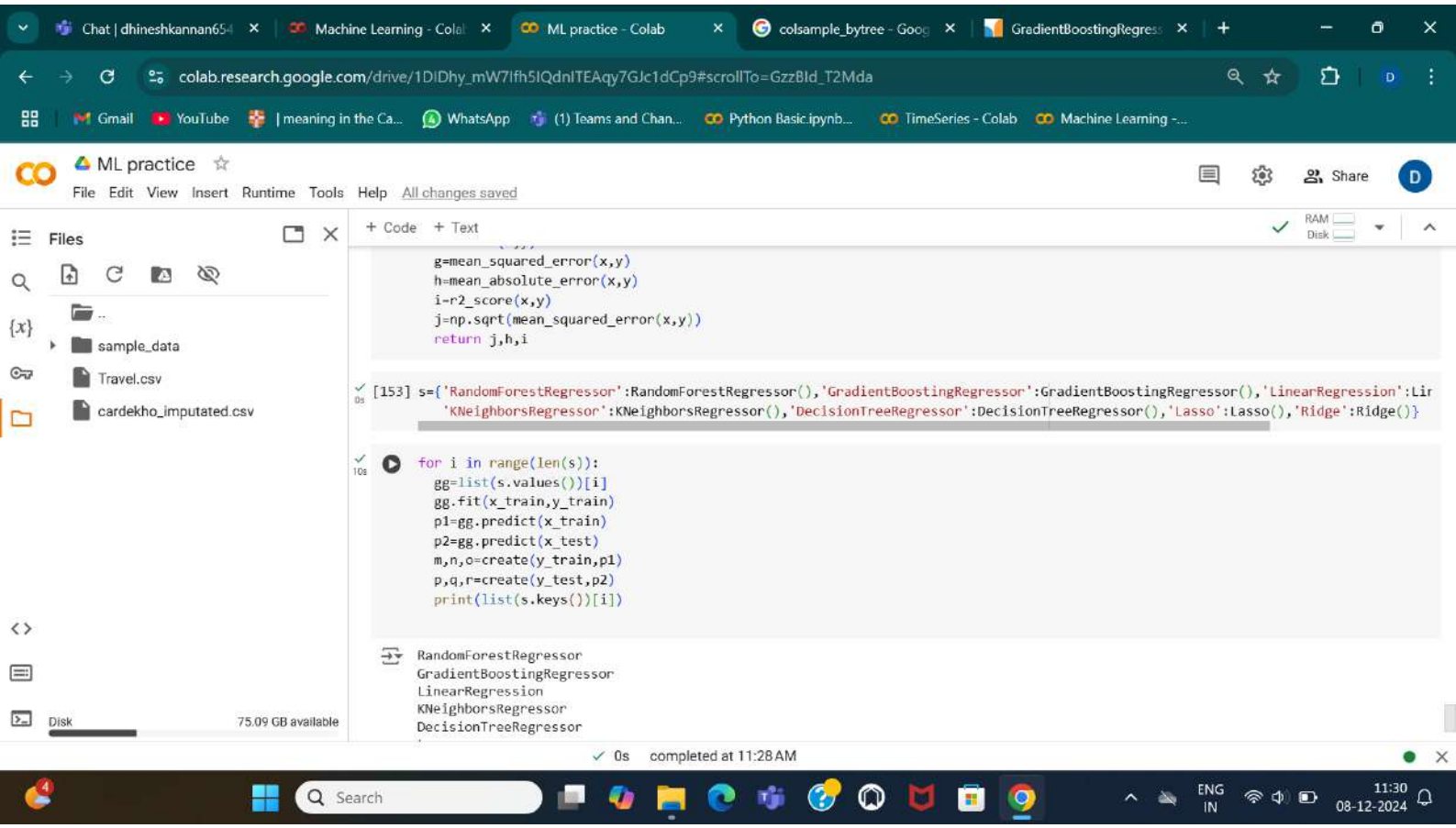
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colsample_bytree - Goog
GradientBoostingRegress
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g=mean_squared_error(x,y)
h=mean_absolute_error(x,y)
i=r2_score(x,y)
j=np.sqrt(mean_squared_error(x,y))
return j,h,i
[153] s={'RandomForestRegressor':RandomForestRegressor(),'GradientBoostingRegressor':GradientBoostingRegressor(),'LinearRegression':Lir
'KNeighborsRegressor':KNeighborsRegressor(),'DecisionTreeRegressor':DecisionTreeRegressor(),'Lasso':Lasso(),'Ridge':Ridge()}
for i in range(len(s)):
gg=list(s.values())[i]
gg.fit(x_train,y_train)
p1=gg.predict(x_train)
p2=gg.predict(x_test)
m,n,o=create(y_train,p1)
p,q,r=create(y_test,p2)
print(list(s.keys())[i])
RandomForestRegressor
GradientBoostingRegressor
LinearRegression
KNeighborsRegressor
DecisionTreeRegressor
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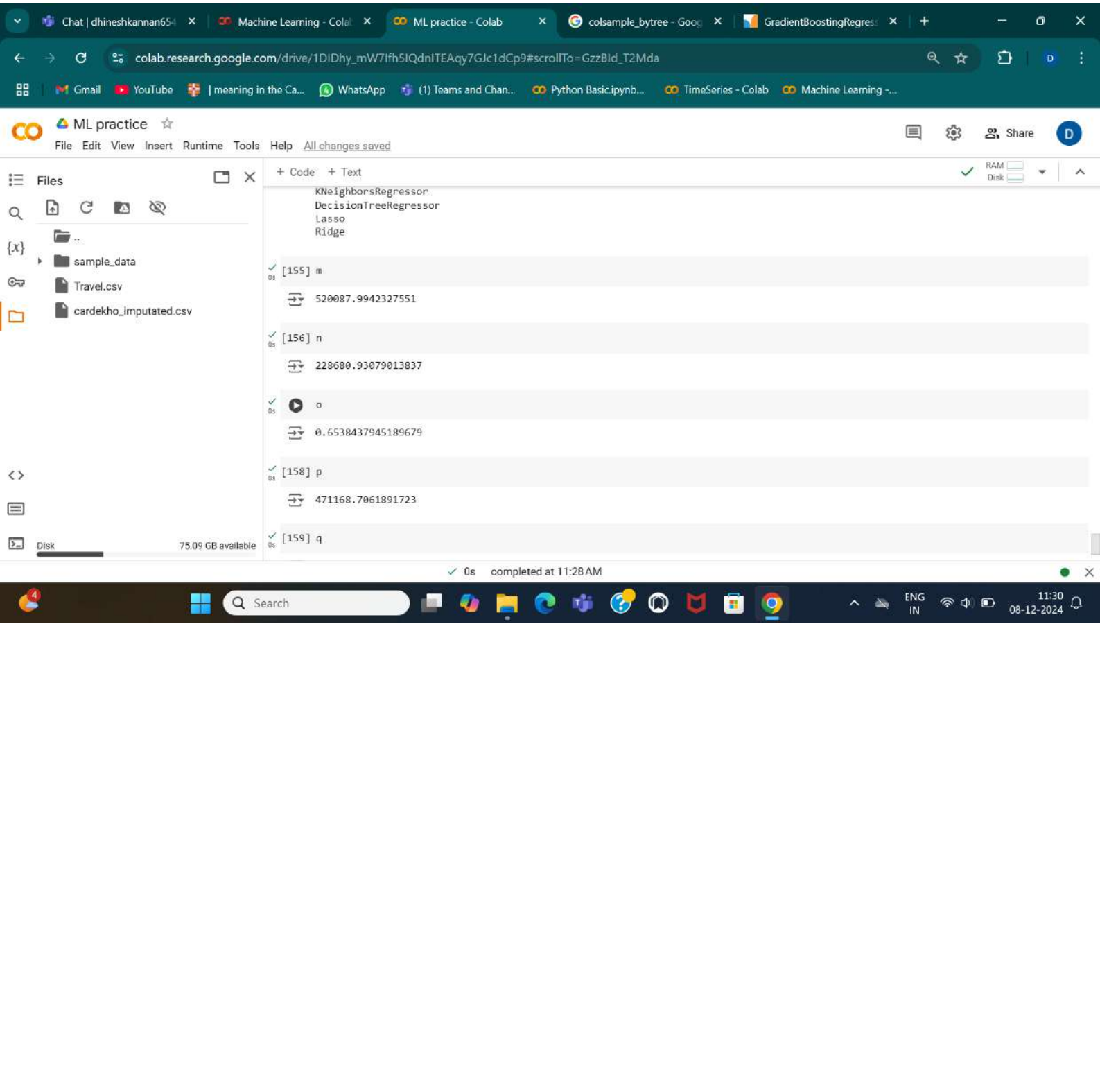
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DecisionTreeRegressor
Lasso
Ridge
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[158] p
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[159] q
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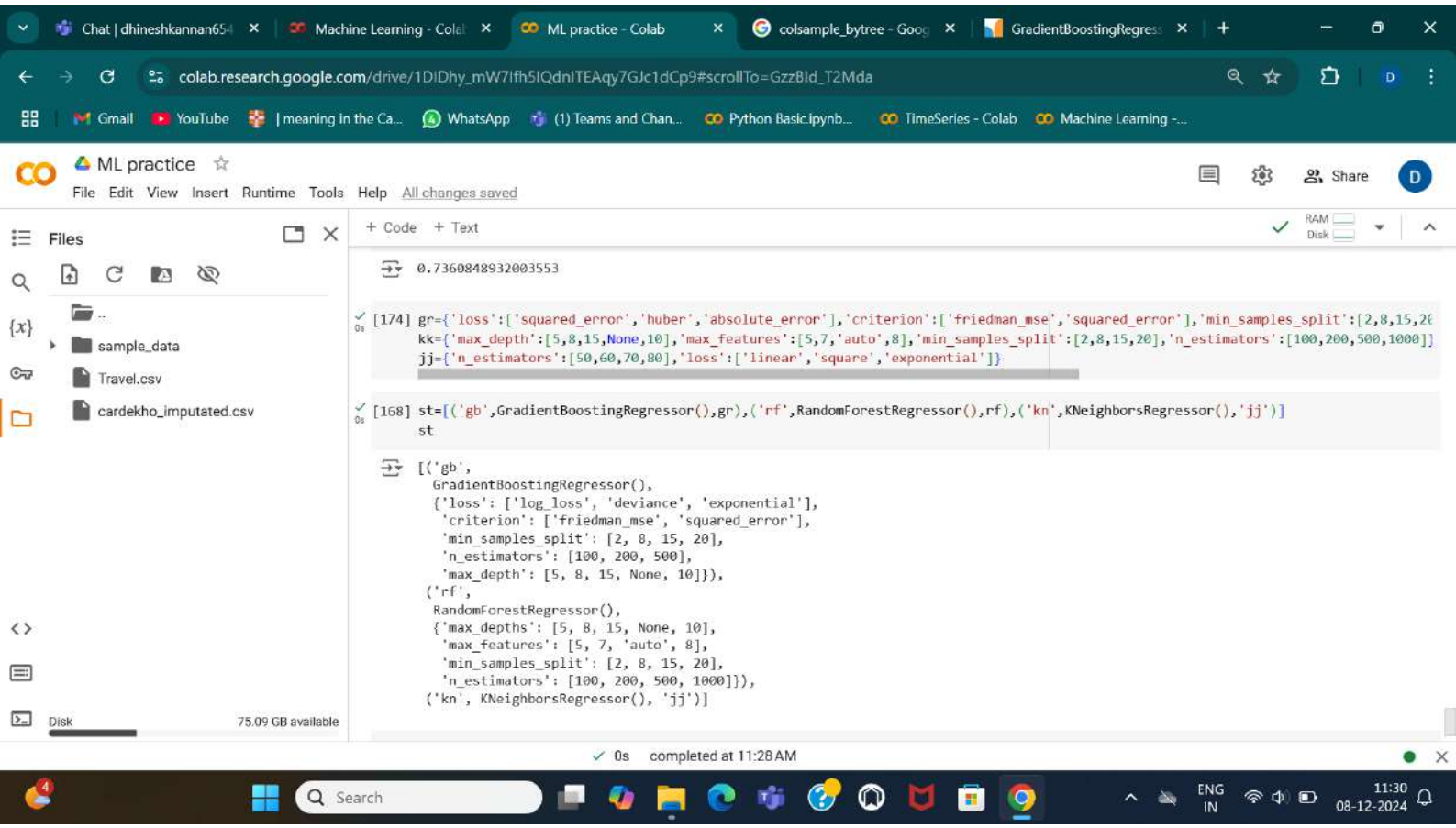
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[174] gr={'loss':['squared_error','huber','absolute_error'],'criterion':['friedman_mse','squared_error'],'min_samples_split':[2,8,15,2
kk={'max_depth':[5,8,15,None,10],'max_features':[5,7,'auto',8],'min_samples_split':[2,8,15,20],'n_estimators':[100,200,500,1000]
jj={'n_estimators':[50,60,70,80],'loss':['linear','square','exponential']}
[168] st=[('gb',GradientBoostingRegressor(),gr),('rf',RandomForestRegressor(),rf),('kn',KNeighborsRegressor(),'jj')]
st
[('gb',
GradientBoostingRegressor(),
{'loss': ['log_loss', 'deviance', 'exponential'],
'criterion': ['friedman_mse', 'squared_error'],
'min_samples_split': [2, 8, 15, 20],
'n_estimators': [100, 200, 500],
'max_depth': [5, 8, 15, None, 10]}),
('rf',
RandomForestRegressor(),
{'max_depths': [5, 8, 15, None, 10],
'max_features': [5, 7, 'auto', 8],
'min_samples_split': [2, 8, 15, 20],
'n_estimators': [100, 200, 500, 1000]}),
('kn', KNeighborsRegressor(), 'jj')]
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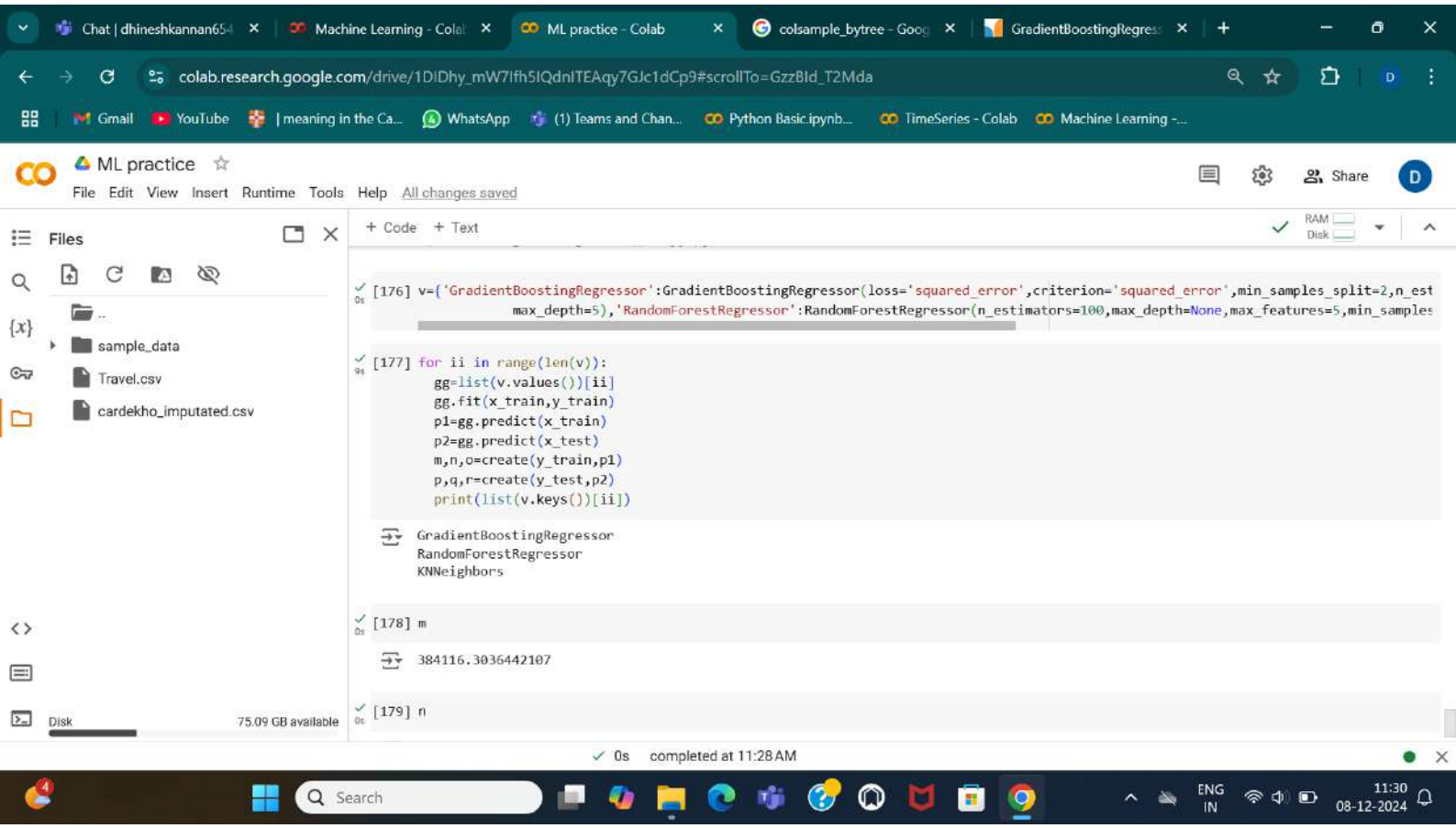
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[176] v={'GradientBoostingRegressor':GradientBoostingRegressor(loss='squared_error',criterion='squared_error',min_samples_split=2,n_est
max_depth=5),'RandomForestRegressor':RandomForestRegressor(n_estimators=100,max_depth=None,max_features=5,min_samples
[177] for ii in range(len(v)):
gg=list(v.values())[ii]
gg.fit(x_train,y_train)
p1=gg.predict(x_train)
p2=gg.predict(x_test)
m,n,o=create(y_train,p1)
p,q,r=create(y_test,p2)
print(list(v.keys())[ii])
GradientBoostingRegressor
RandomForestRegressor
KNNeighbors
[178] m
384116.3036442107
[179] n
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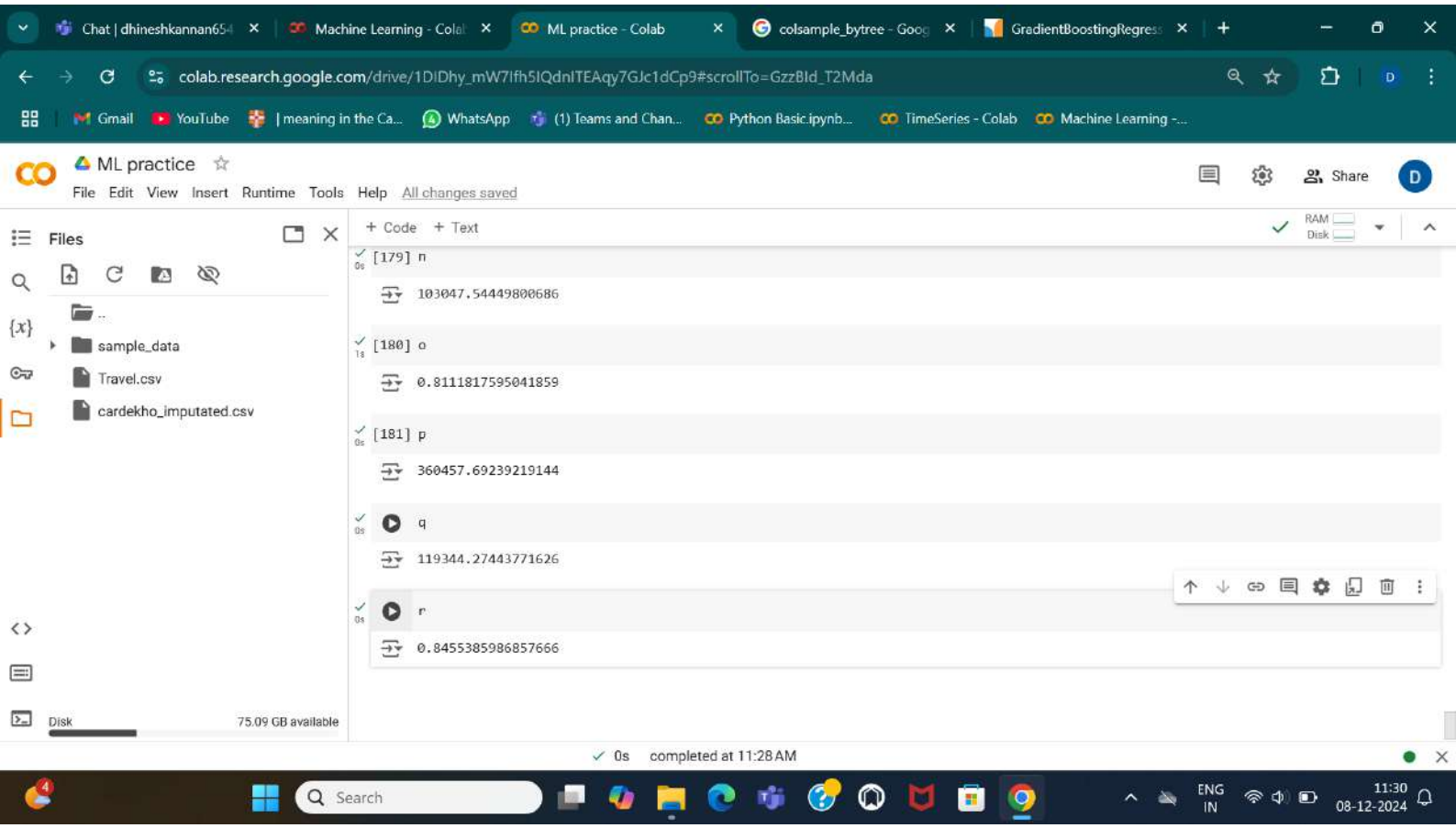
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[181] p
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