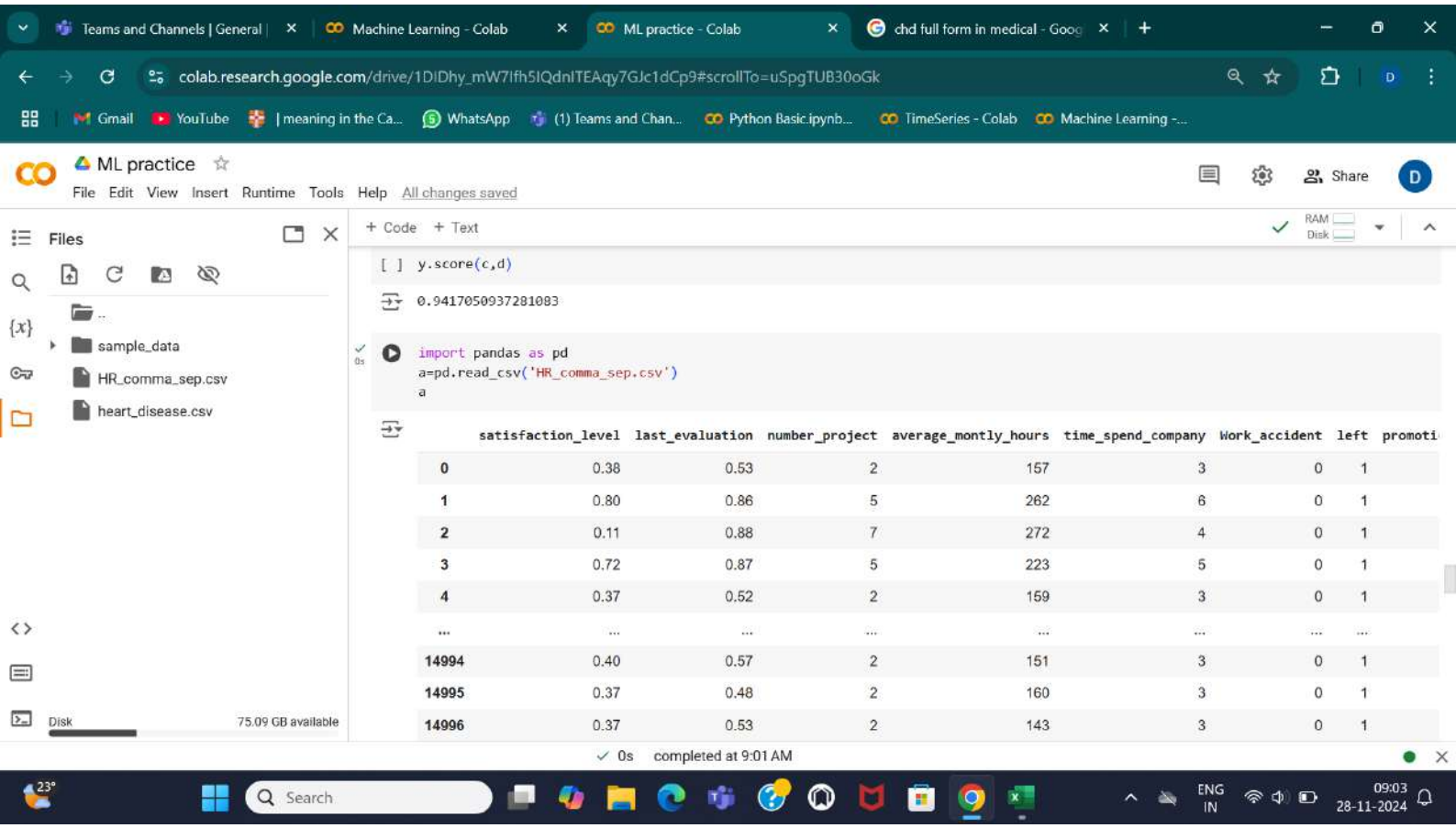
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sample_data
HR_comma_sep.csv
heart_disease.csv
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[ ] y.score(c,d)
0.9417050937281083
import pandas as pd
a=pd.read_csv('HR_comma_sep.csv')
a
satisfaction_level last_evaluation number_project average_montly_hours time_spend_company Work_accident left promoti
0 0.38 0.53 2 157 3 0 1
1 0.80 0.86 5 262 6 0 1
2 0.11 0.88 7 272 4 0 1
3 0.72 0.87 5 223 5 0 1
4 0.37 0.52 2 159 3 0 1
... ...
14994 0.40 0.57 2 151 3 0 1
14995 0.37 0.48 2 160 3 0 1
14996 0.37 0.53 2 143 3 0 1
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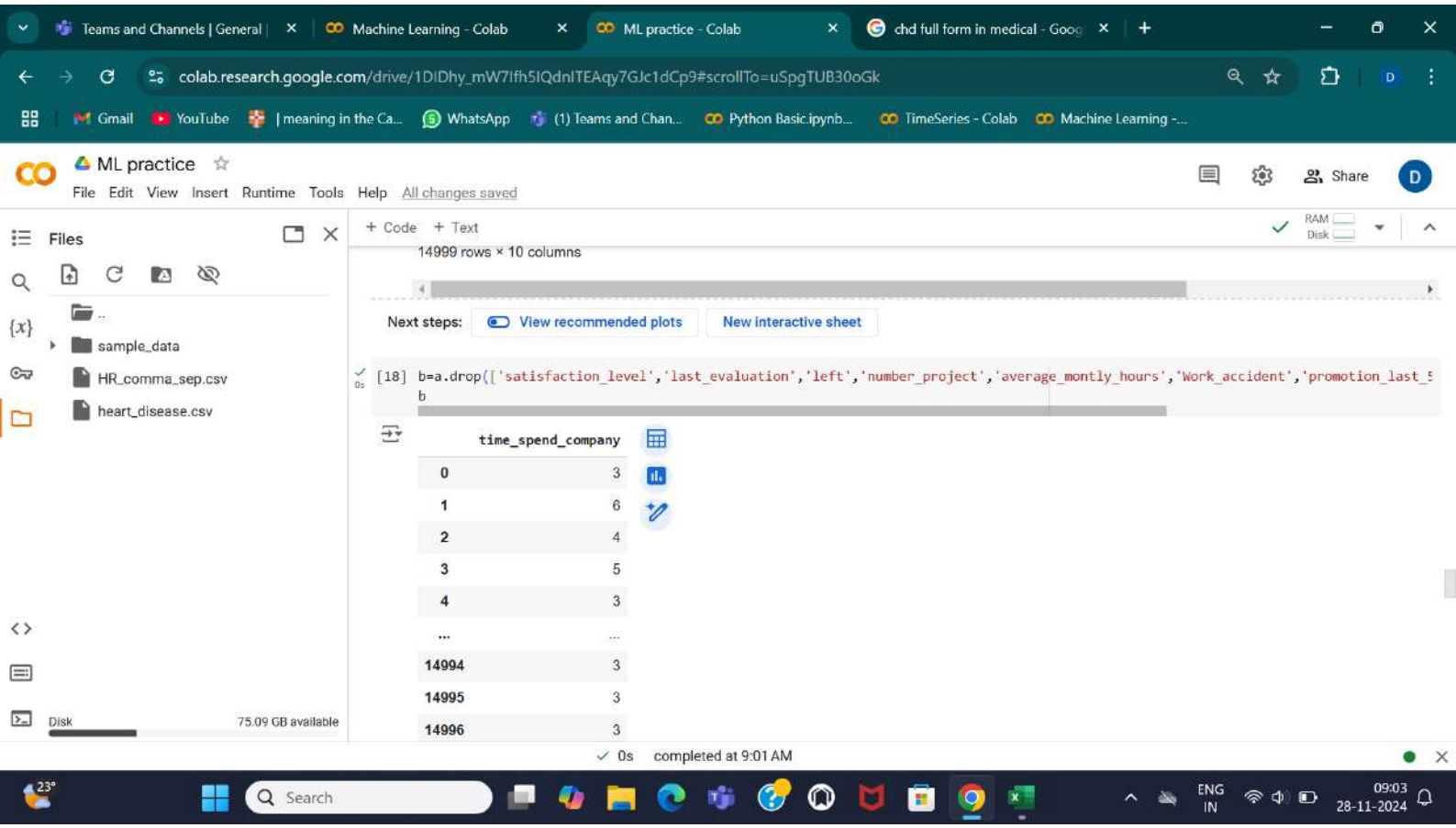
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heart_disease.csv
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14999 rows × 10 columns
Next steps: View recommended plots New interactive sheet
[18] b=a.drop(['satisfaction_level','last_evaluation','left','number_project','average_montly_hours','Work_accident','promotion_last_5
b
time_spend_company
0 3
1 6
2 4
3 5
4 3
... ...
14994 3
14995 3
14996 3
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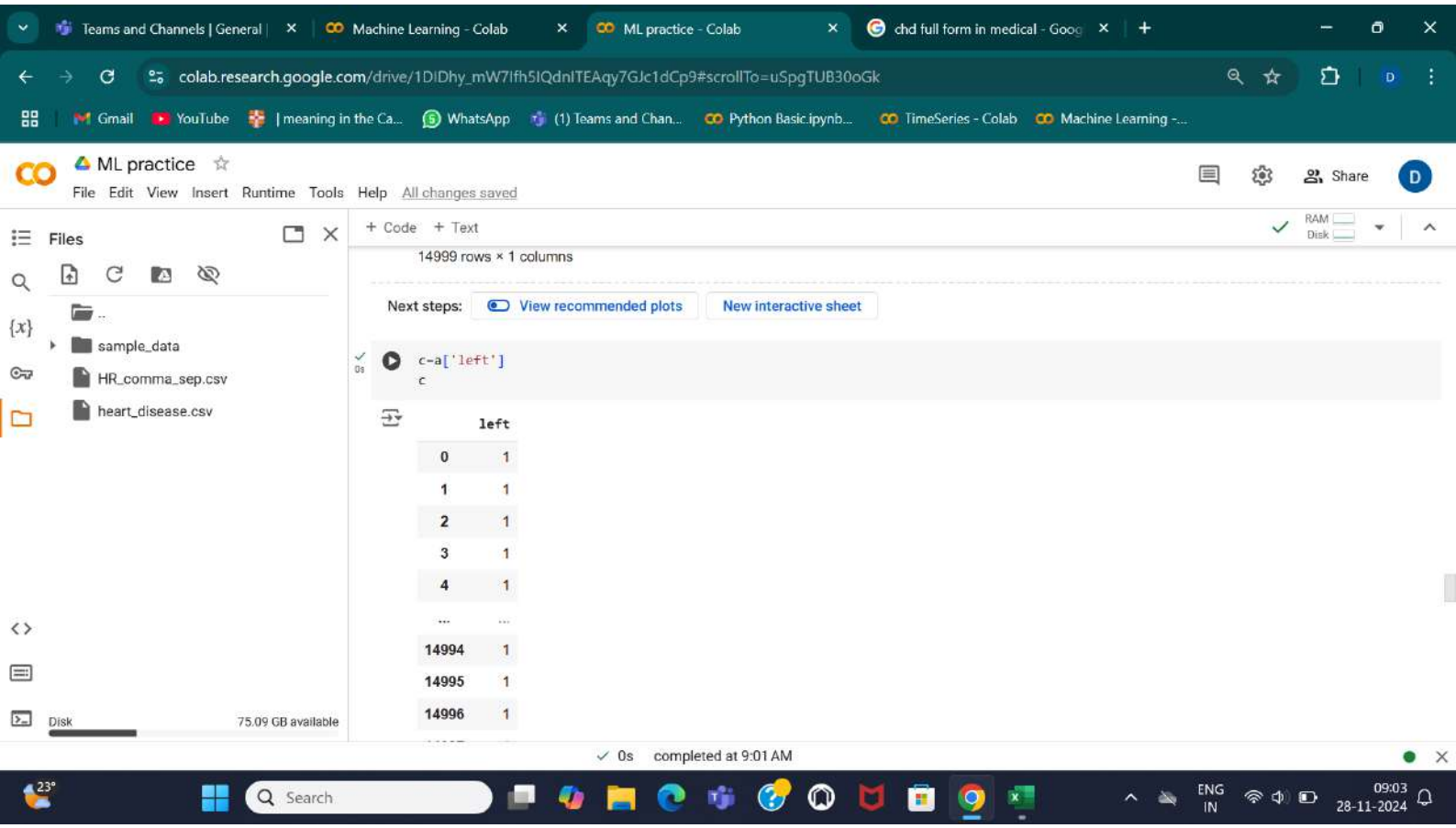
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14999 rows × 1 columns
Next steps: View recommended plots New interactive sheet
c=a['left']
c
left
0 1
1 1
2 1
3 1
4 1
14994 1
14995 1
14996 1
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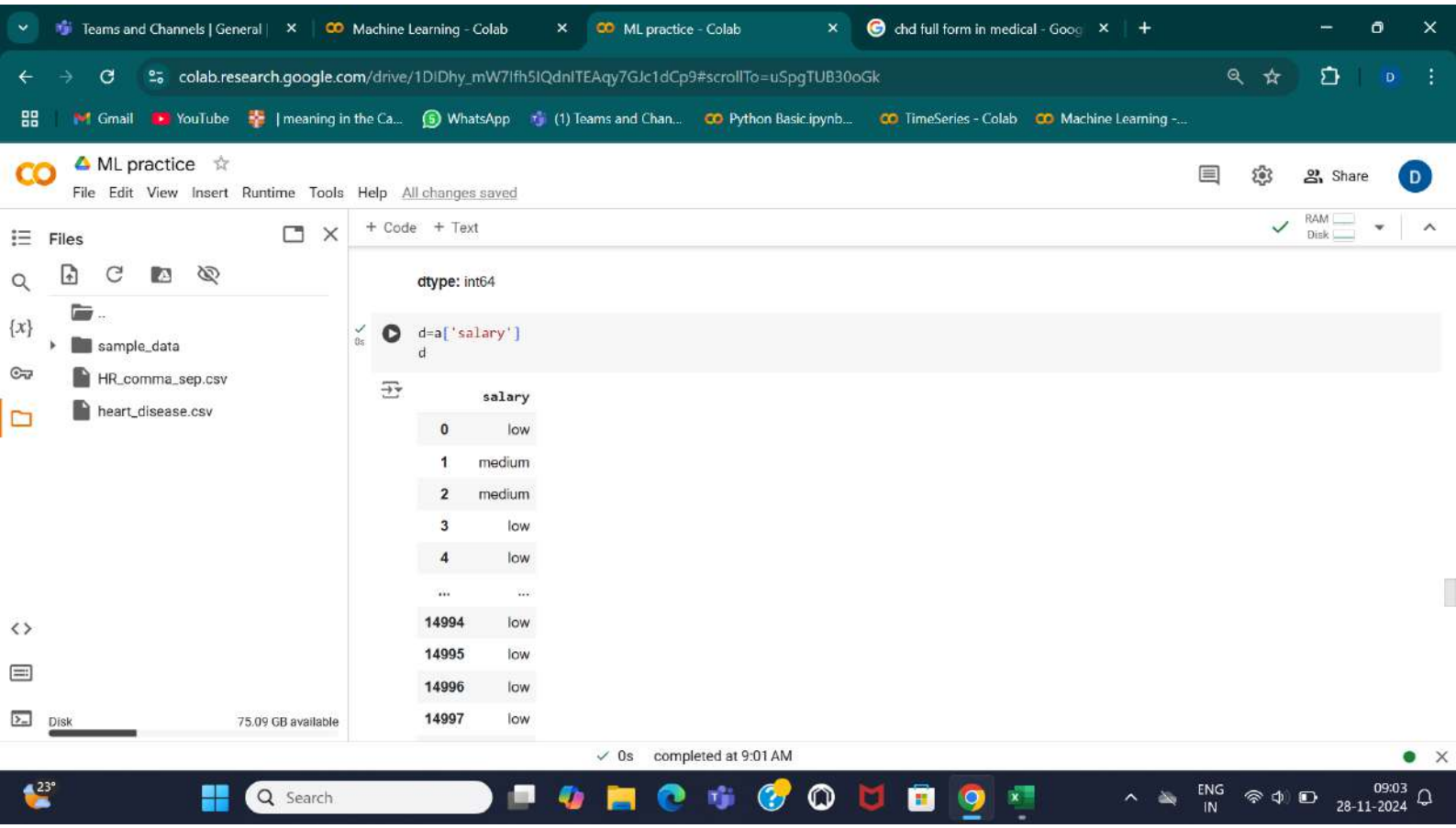
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dtype: int64
d=a['salary']
d
salary
0 low
1 medium
2 medium
3 low
4 low
14994 low
14995 low
14996 low
14997 low
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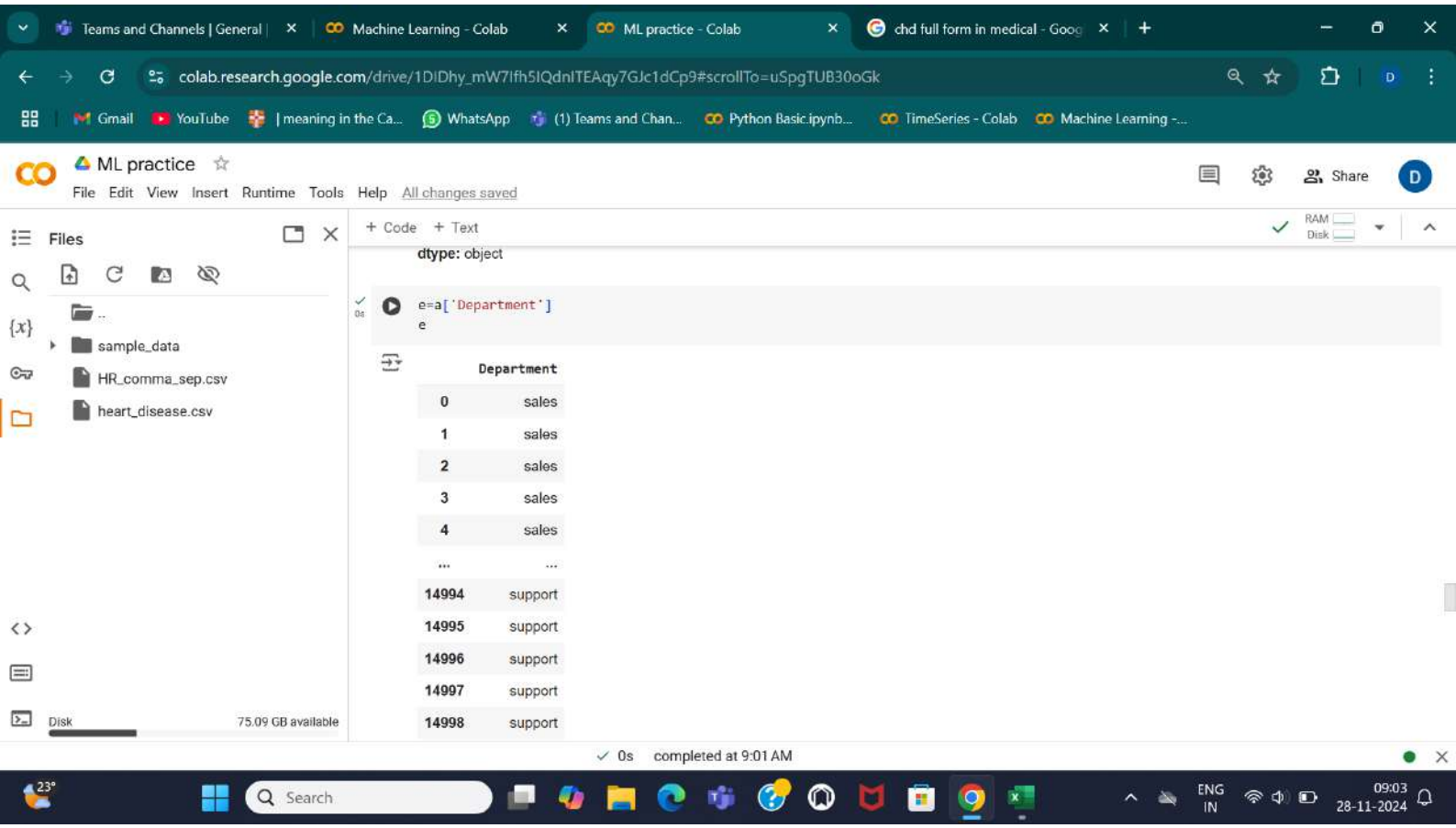
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heart_disease.csv
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dtype: object
e=a['Department']
e
Department
0 sales
1 sales
2 sales
3 sales
4 sales
... ...
14994 support
14995 support
14996 support
14997 support
14998 support
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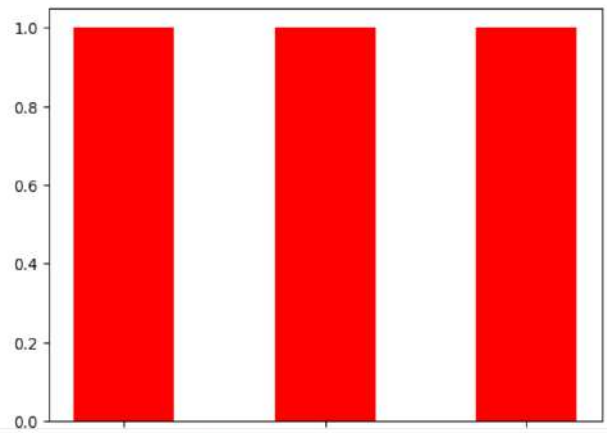
```
import matplotlib.pyplot as plt
plt.bar(d,c,width=0.5,color='red')
plt.show()
```



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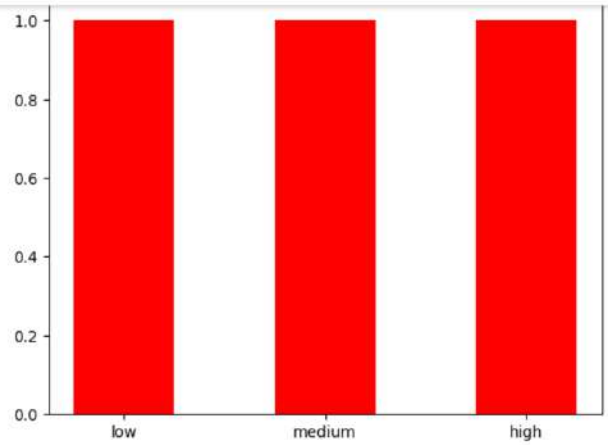


```
[10] plt.bar(e,c,width=0.5,color='red')
     plt.xticks(rotation=80)
     plt.show()
```

21s

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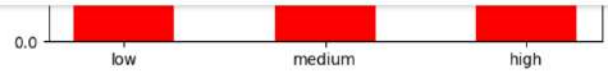
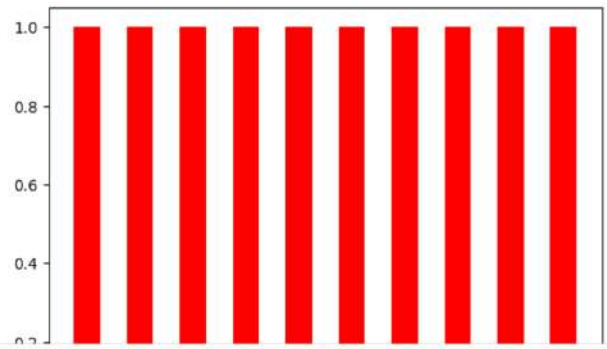



```
plt.bar(e,c,width=0.5,color='red')
plt.xticks(rotation=80)
plt.show()
```

21s



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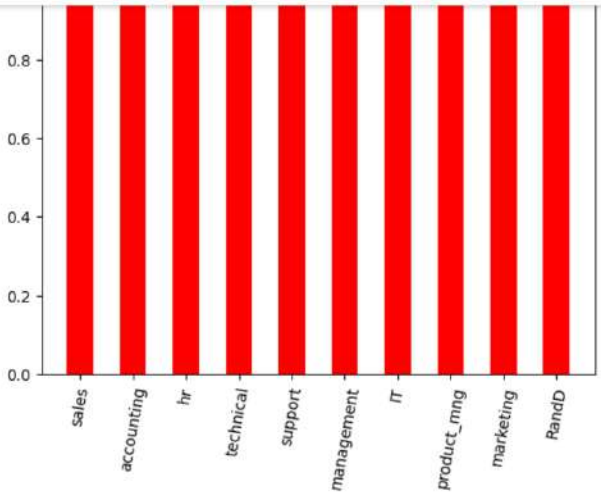

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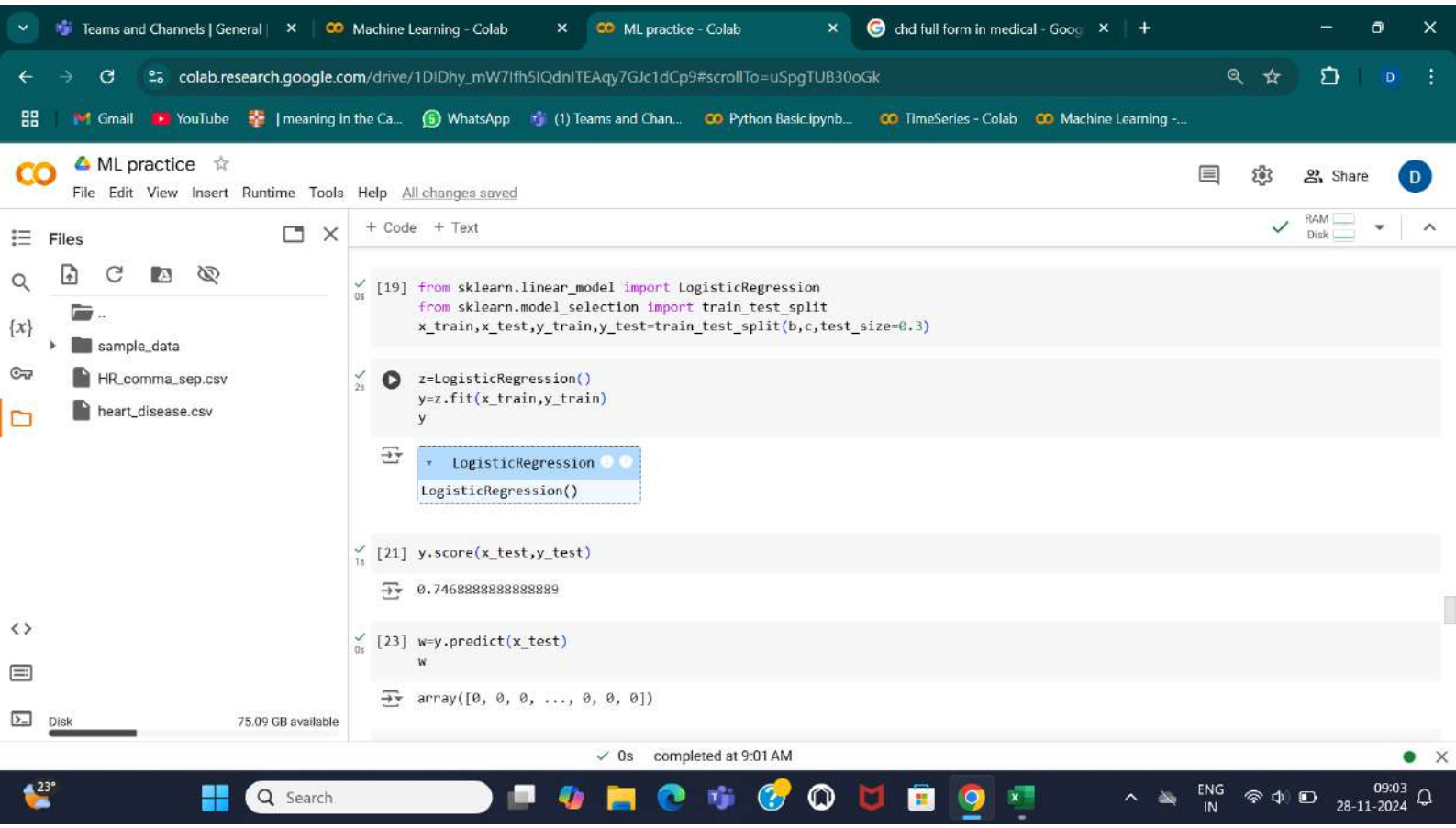
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[19] from sklearn.linear_model import LogisticRegression
from sklearn.model_selection import train_test_split
x_train,x_test,y_train,y_test=train_test_split(b,c,test_size=0.3)
z=LogisticRegression()
y=z.fit(x_train,y_train)
y
LogisticRegression
LogisticRegression()
[21] y.score(x_test,y_test)
0.7468888888888889
[23] w=y.predict(x_test)
w
array([0, 0, 0, ..., 0, 0, 0])
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```
[24] y.coef_
```

```
array([[0.21331192]])
```

```
y.intercept_
```

```
array([-1.93614453])
```

```
[26] import math
     def create(x):
       return 1/(1+math.exp(-x))
```

```
[27] def mon(time_spend_company):
       r=0.213*time_spend_company-1.936
       t=create(r)
       return t
```

```
[28] z=4
     mon(z)
```

```
0.25274980041693096
```

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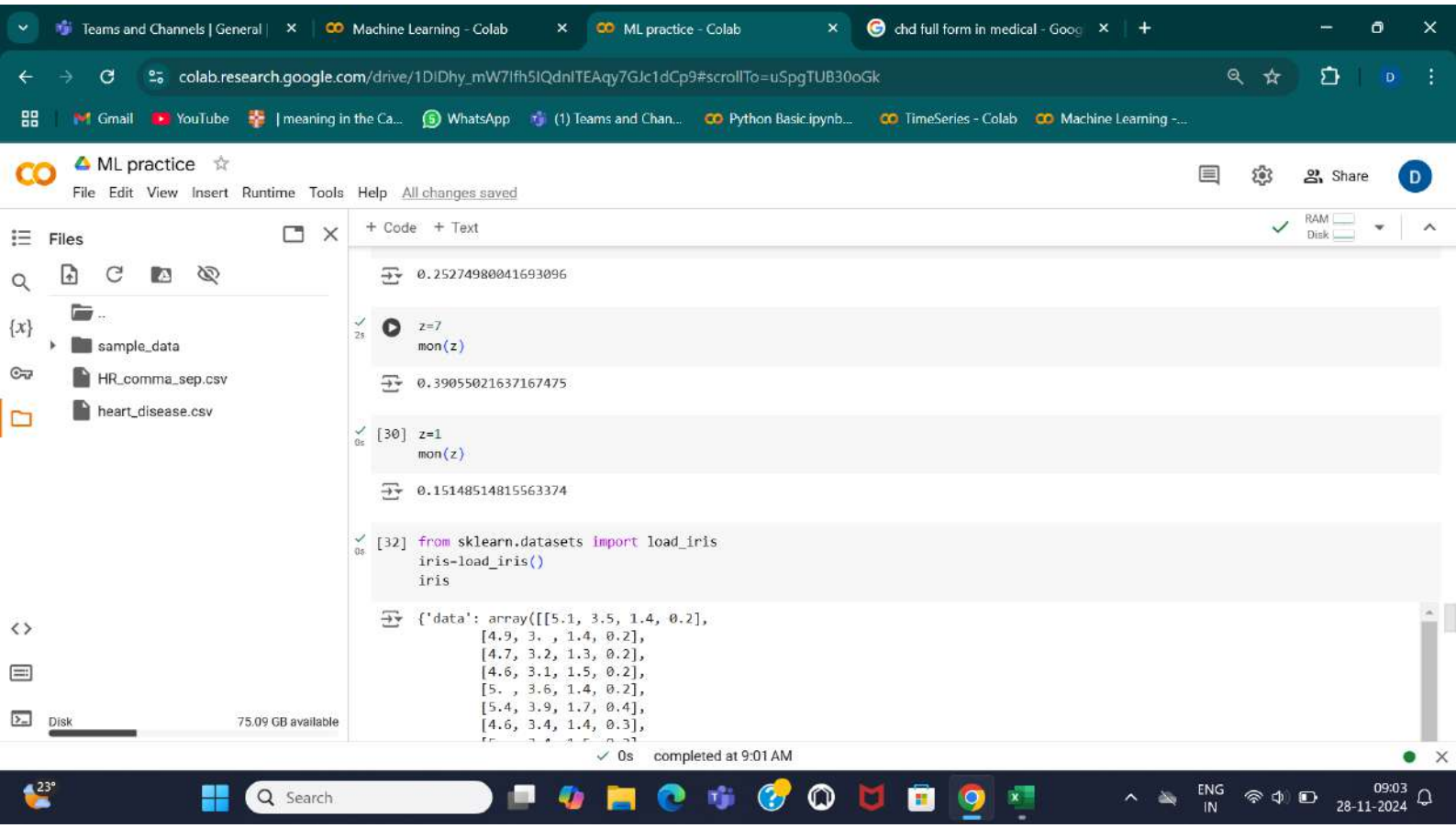
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0.25274980041693096
z=7
mon(z)
0.39055021637167475
[30] z=1
mon(z)
0.15148514815563374
[32] from sklearn.datasets import load_iris
iris=load_iris()
iris
{'data': array([[5.1, 3.5, 1.4, 0.2],
[4.9, 3. , 1.4, 0.2],
[4.7, 3.2, 1.3, 0.2],
[4.6, 3.1, 1.5, 0.2],
[5. , 3.6, 1.4, 0.2],
[5.4, 3.9, 1.7, 0.4],
[4.6, 3.4, 1.4, 0.3],
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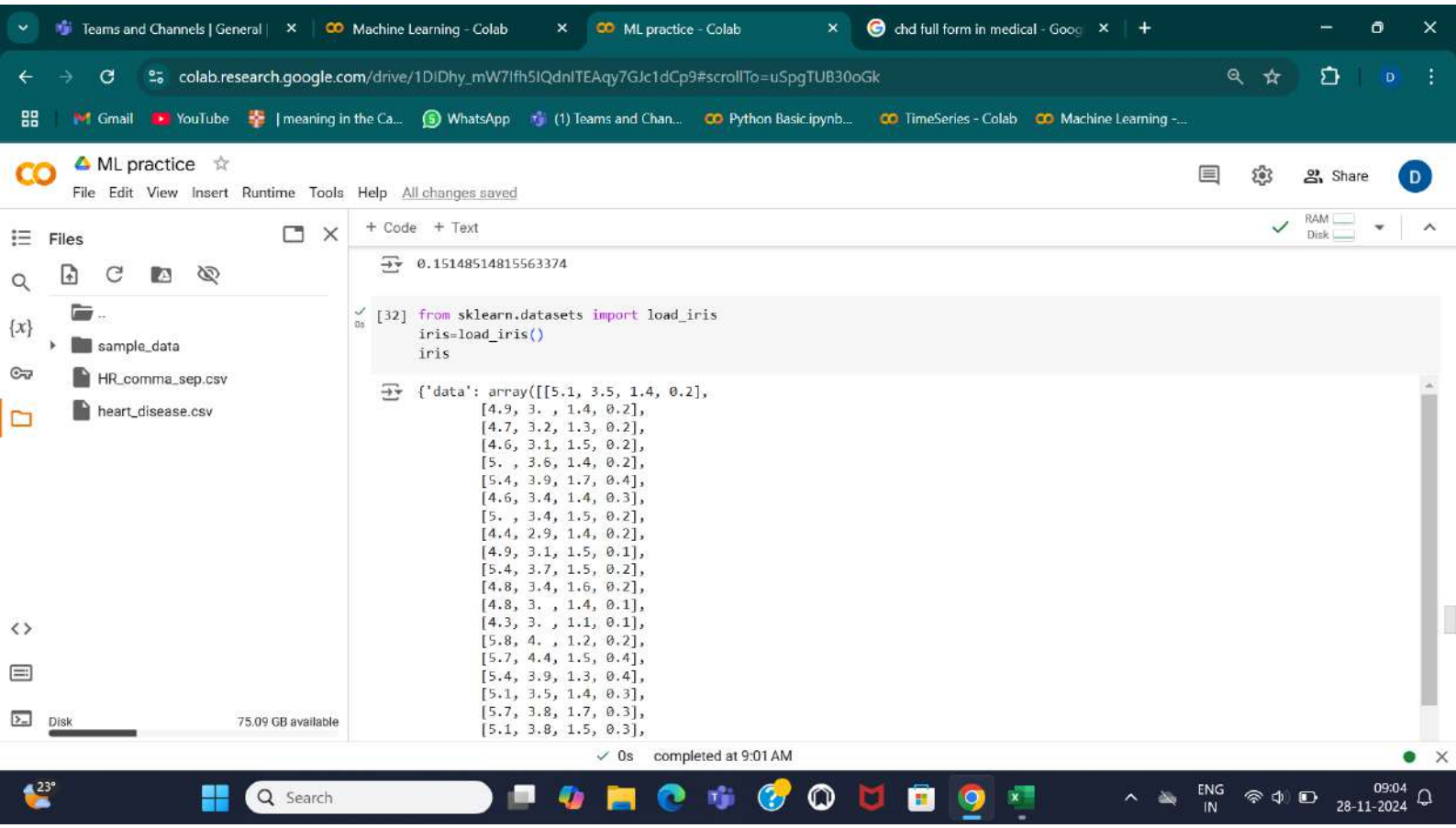
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0.15148514815563374
[32] from sklearn.datasets import load_iris
iris=load_iris()
iris
{'data': array([[5.1, 3.5, 1.4, 0.2],
[4.9, 3. , 1.4, 0.2],
[4.7, 3.2, 1.3, 0.2],
[4.6, 3.1, 1.5, 0.2],
[5. , 3.6, 1.4, 0.2],
[5.4, 3.9, 1.7, 0.4],
[4.6, 3.4, 1.4, 0.3],
[5. , 3.4, 1.5, 0.2],
[4.4, 2.9, 1.4, 0.2],
[4.9, 3.1, 1.5, 0.1],
[5.4, 3.7, 1.5, 0.2],
[4.8, 3.4, 1.6, 0.2],
[4.8, 3. , 1.4, 0.1],
[4.3, 3. , 1.1, 0.1],
[5.8, 4. , 1.2, 0.2],
[5.7, 4.4, 1.5, 0.4],
[5.4, 3.9, 1.3, 0.4],
[5.1, 3.5, 1.4, 0.3],
[5.7, 3.8, 1.7, 0.3],
[5.1, 3.8, 1.5, 0.3],
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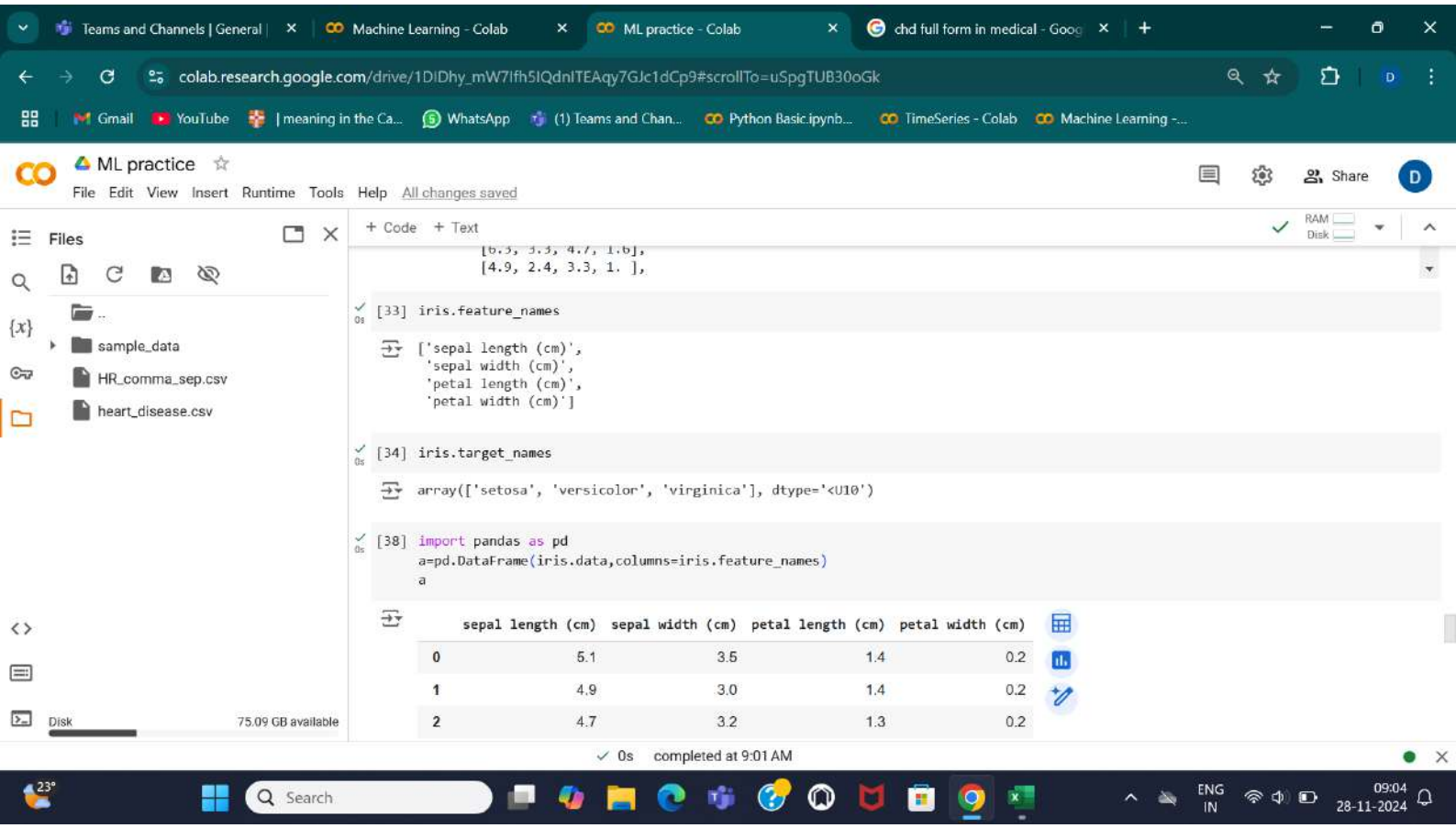
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[6.3, 3.3, 4.7, 1.6],
[4.9, 2.4, 3.3, 1.],
[33] iris.feature_names
['sepal length (cm)',
'sepal width (cm)',
'petal length (cm)',
'petal width (cm)']
[34] iris.target_names
array(['setosa', 'versicolor', 'virginica'], dtype='<U10')
[38] import pandas as pd
a=pd.DataFrame(iris.data,columns=iris.feature_names)
a
sepal length (cm) sepal width (cm) petal length (cm) petal width (cm)
0 5.1 3.5 1.4 0.2
1 4.9 3.0 1.4 0.2
2 4.7 3.2 1.3 0.2
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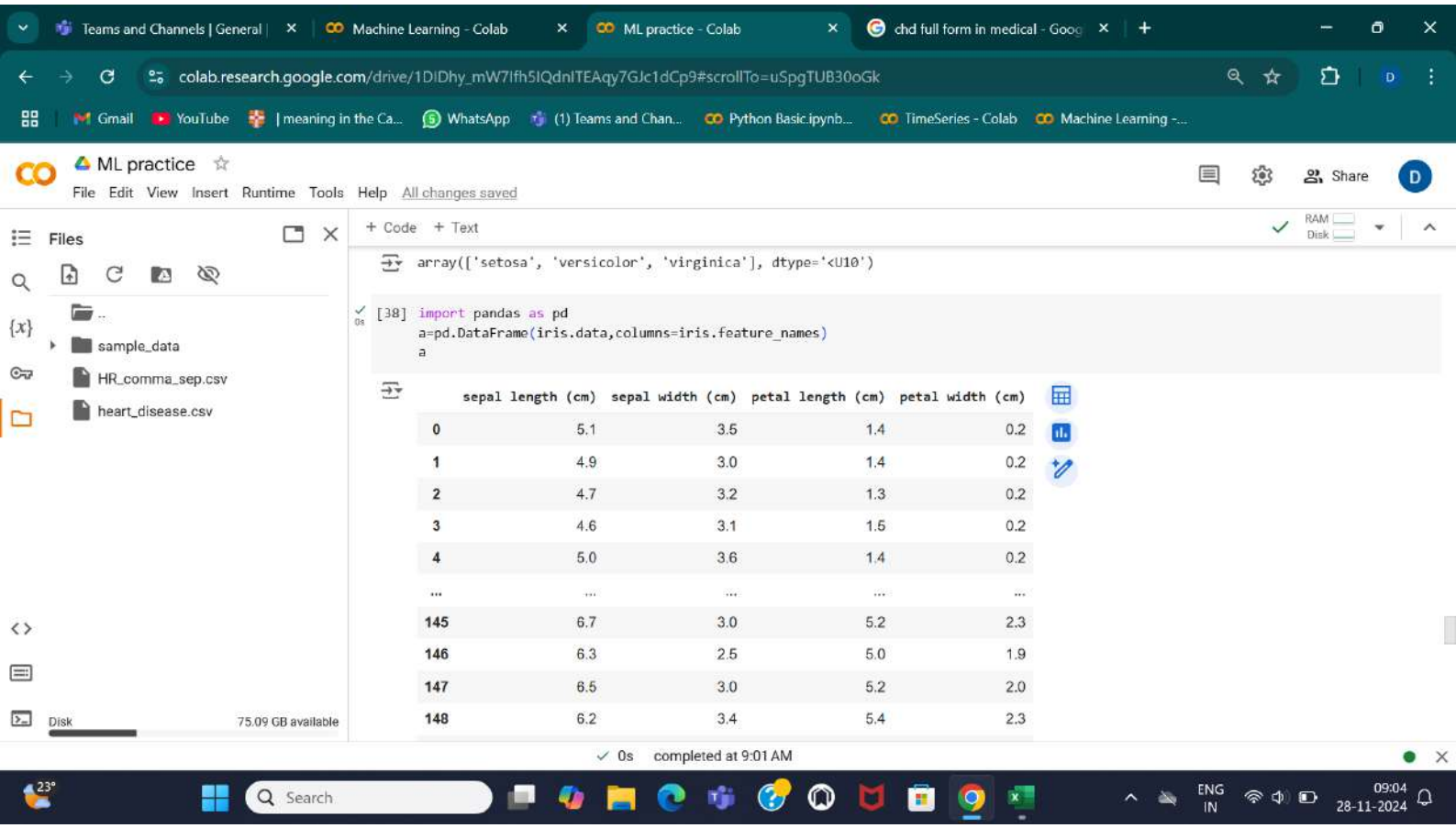
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array(['setosa', 'versicolor', 'virginica'], dtype='<U10')
[38] import pandas as pd
a=pd.DataFrame(iris.data,columns=iris.feature_names)
a
sepal length (cm) sepal width (cm) petal length (cm) petal width (cm)
0 5.1 3.5 1.4 0.2
1 4.9 3.0 1.4 0.2
2 4.7 3.2 1.3 0.2
3 4.6 3.1 1.5 0.2
4 5.0 3.6 1.4 0.2
... ...
145 6.7 3.0 5.2 2.3
146 6.3 2.5 5.0 1.9
147 6.5 3.0 5.2 2.0
148 6.2 3.4 5.4 2.3
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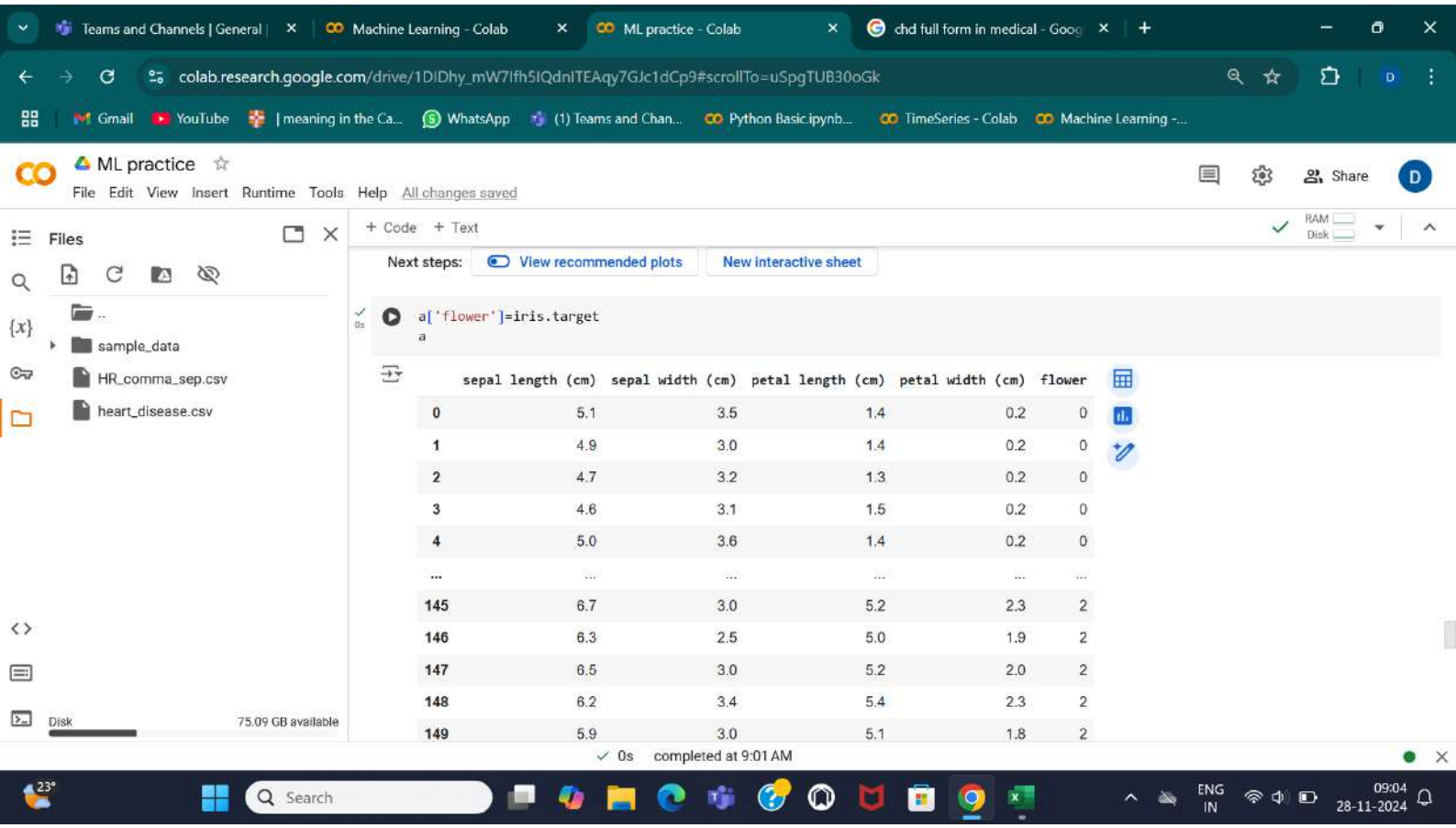
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Next steps: View recommended plots New interactive sheet
a['flower']=iris.target
a
sepal length (cm) sepal width (cm) petal length (cm) petal width (cm) flower
0 5.1 3.5 1.4 0.2 0
1 4.9 3.0 1.4 0.2 0
2 4.7 3.2 1.3 0.2 0
3 4.6 3.1 1.5 0.2 0
4 5.0 3.6 1.4 0.2 0
... ...
145 6.7 3.0 5.2 2.3 2
146 6.3 2.5 5.0 1.9 2
147 6.5 3.0 5.2 2.0 2
148 6.2 3.4 5.4 2.3 2
149 5.9 3.0 5.1 1.8 2
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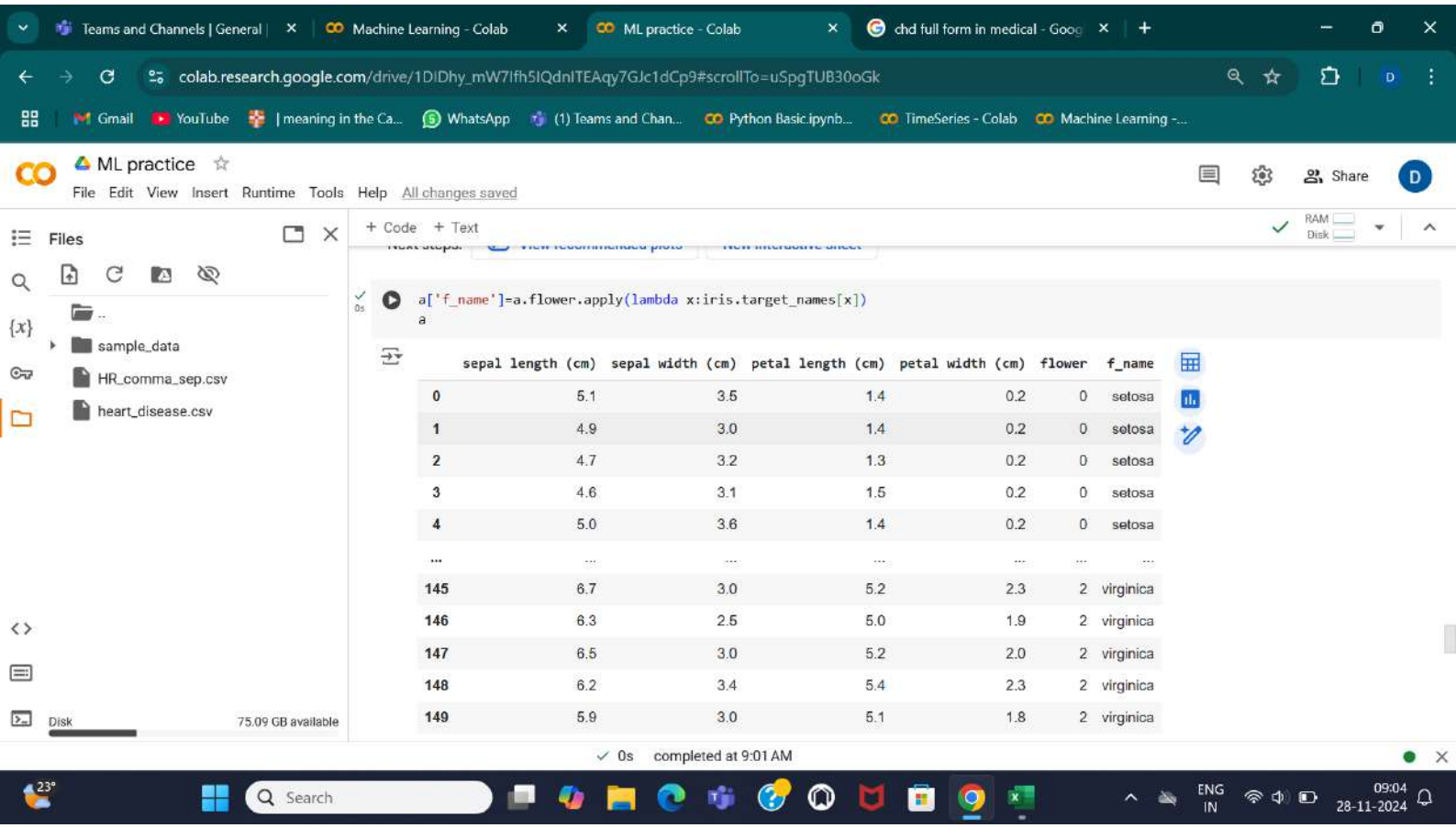
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sample_data
HR_comma_sep.csv
heart_disease.csv
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a['f_name']=a.flower.apply(lambda x:iris.target_names[x])
a
sepal length (cm) sepal width (cm) petal length (cm) petal width (cm) flower f_name
0 5.1 3.5 1.4 0.2 0 setosa
1 4.9 3.0 1.4 0.2 0 setosa
2 4.7 3.2 1.3 0.2 0 setosa
3 4.6 3.1 1.5 0.2 0 setosa
4 5.0 3.6 1.4 0.2 0 setosa
... ...
145 6.7 3.0 5.2 2.3 2 virginica
146 6.3 2.5 5.0 1.9 2 virginica
147 6.5 3.0 5.2 2.0 2 virginica
148 6.2 3.4 5.4 2.3 2 virginica
149 5.9 3.0 5.1 1.8 2 virginica
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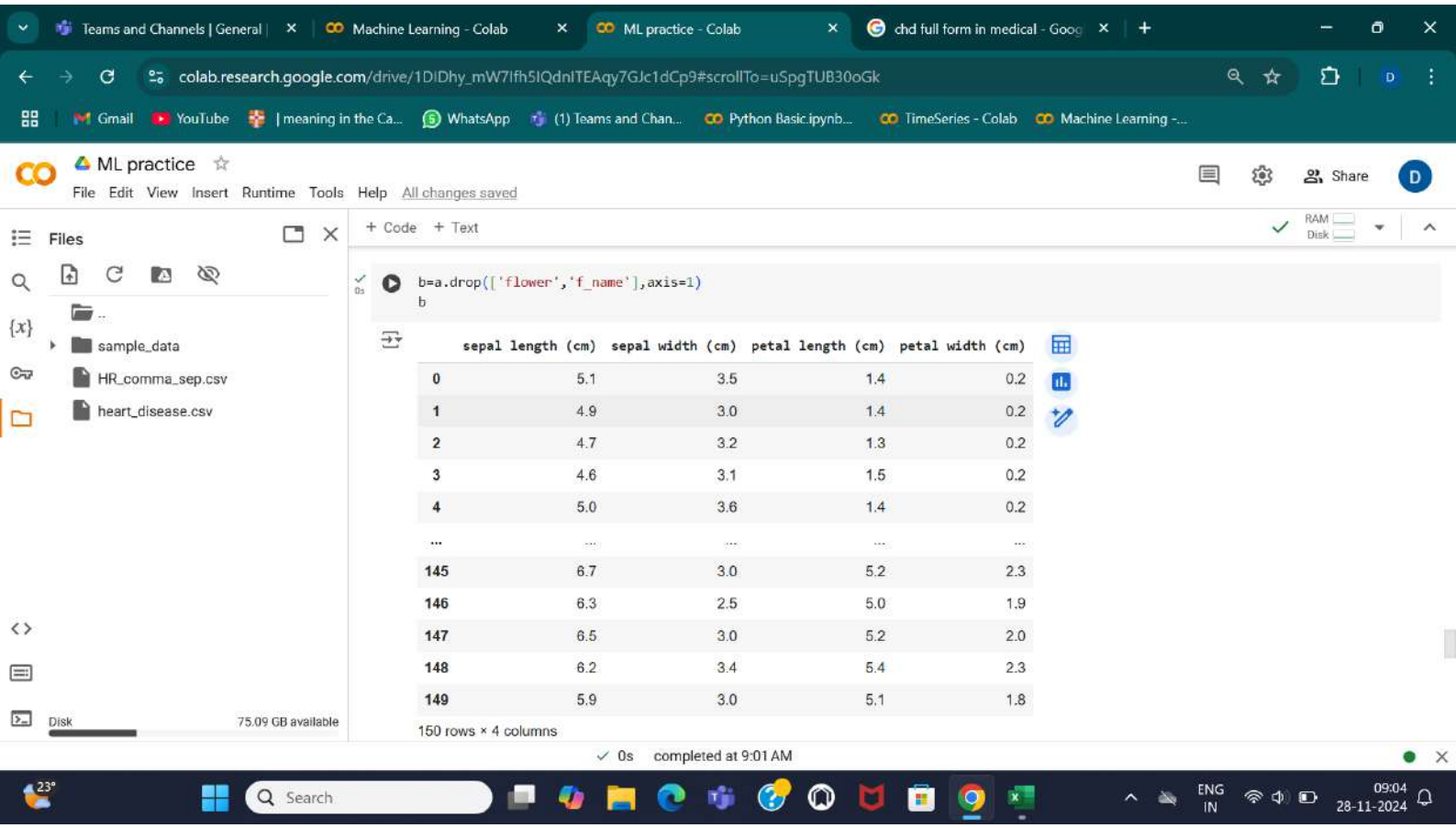
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b=a.drop(['flower','f_name'],axis=1)
b
sepal length (cm) sepal width (cm) petal length (cm) petal width (cm)
0 5.1 3.5 1.4 0.2
1 4.9 3.0 1.4 0.2
2 4.7 3.2 1.3 0.2
3 4.6 3.1 1.5 0.2
4 5.0 3.6 1.4 0.2
... ...
145 6.7 3.0 5.2 2.3
146 6.3 2.5 5.0 1.9
147 6.5 3.0 5.2 2.0
148 6.2 3.4 5.4 2.3
149 5.9 3.0 5.1 1.8
150 rows × 4 columns
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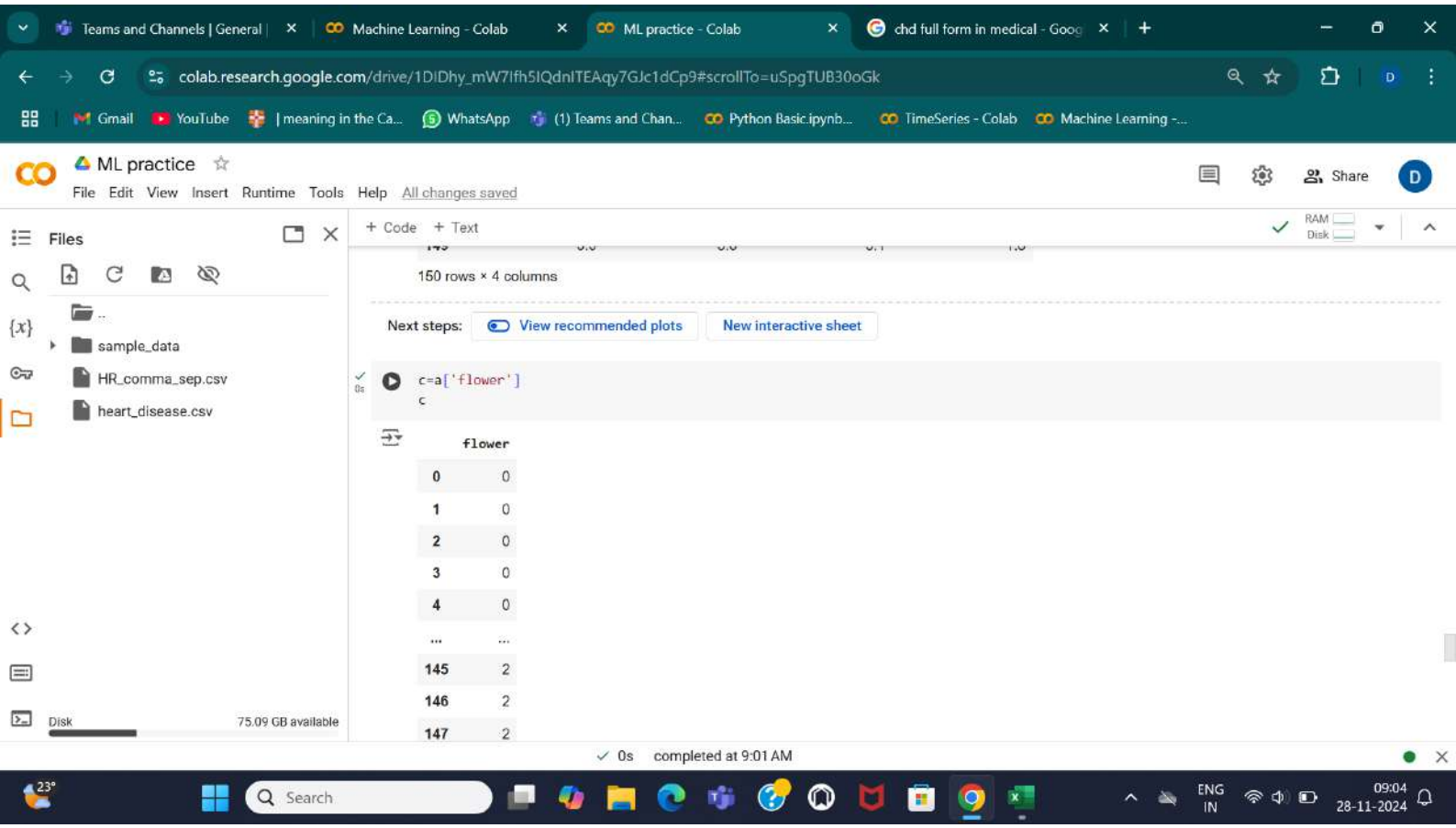
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150 rows × 4 columns
Next steps: View recommended plots New interactive sheet
c=a['flower']
c
flower
0 0
1 0
2 0
3 0
4 0
... ...
145 2
146 2
147 2
0s completed at 9:01 AM
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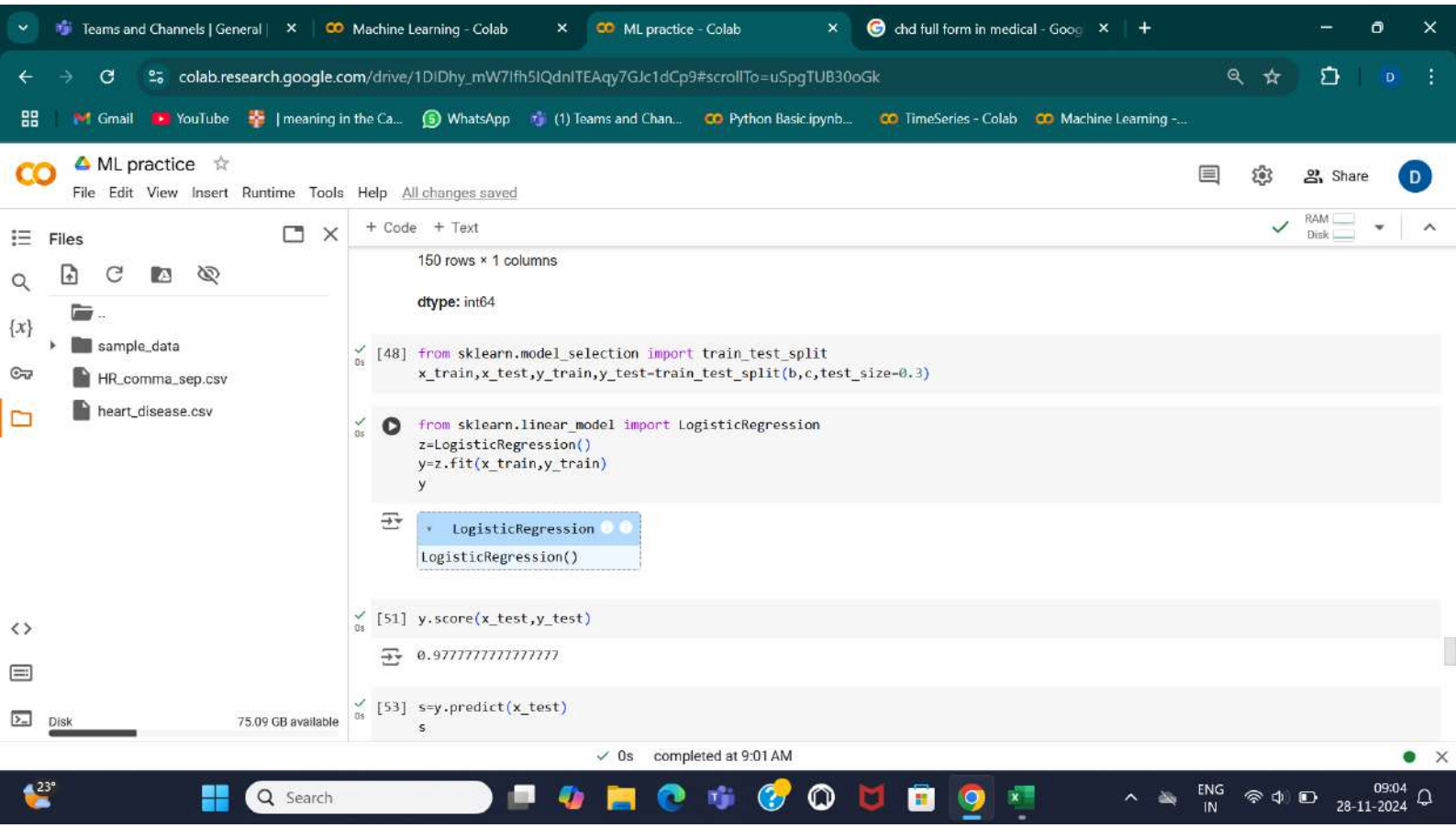
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heart_disease.csv
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150 rows × 1 columns
dtype: int64
[48] from sklearn.model_selection import train_test_split
x_train,x_test,y_train,y_test=train_test_split(b,c,test_size=0.3)
from sklearn.linear_model import LogisticRegression
z=LogisticRegression()
y=z.fit(x_train,y_train)
y
LogisticRegression
LogisticRegression()
[51] y.score(x_test,y_test)
0.9777777777777777
[53] s=y.predict(x_test)
s
0s completed at 9:01 AM
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