**Machine Learning**

import pandas as pd

from sklearn.linear\_model import LinearRegression

from sklearn.model\_selection import train\_test\_split

from sklearn.tree import DecisionTreeClassifier

from sklearn.metrics import accuracy\_score,confusion\_matrix,classification\_report

from joblib import dump, load

from sklearn.metrics import confusion\_matrix, ConfusionMatrixDisplay

from matplotlib import pyplot as plt

data=pd.read\_csv("path\_of\_your\_data\_of\_csv\_loacation")

data['Sex'].replace(['Female','Male'],[0,1],inplace=True) #here’s the way u can change some key in data readed replace 0 and 1

x=data.drop(columns='table\_column') #to remove specific column

x.head( ) # to check first recorders

x.tail( ) # to check first recorders

y=data.drop(columns=['column\_1','column\_2','column\_2',...]) # to remove other columns

x\_train,x\_test,y\_train,y\_test=train\_test\_split(x,y,test\_size=0.30) # to set test and check if the model train well

clf=DecisionTreeClassifier() # to set a model that are going to be trainned

clf.fit(x\_train,y\_train) # to train model

test=clf.predict(x\_test) # to predict if model predicting

accuracy=accuracy\_score(y\_test,test) # to check the accurant of model if above 80 to 100 it good to go

new\_record=clf.predict([[row\_1,row\_2,row\_3,....]]) #to test model if predicting result

dump(clf,"name\_of\_model.joblib") # to dump the model trainned into the named file

c\_matrix=confusion\_matrix(y\_test,test) # to check the column keys ability of prediction

disp = ConfusionMatrixDisplay(confusion\_matrix=c\_matrix,display\_labels=clf.classes\_) #to show the c\_matrix on matrix display

disp.plot( ) # to show it on colab

classification\_report(y\_test,test) # to show the report of every column