**NAAN MUDHALVAN**

Project title :

Public Health Awareness

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PROJECT DESCRIPTION :

PHASE 4 : Development On The Public Health Awareness Data Set

OBJECTIVE :

STEPS :

in google colab notebook:

* Open the Google drive
* Load the Data Set

Descriptive Analysis :

* Frequency
* Proposition
* Summary Statistics & Reports
* Corelation
* Graph Representation

Descriptive Analysis :

Frequency:

Code :

# Frequency of treatement :

response\_counts = id['treatment'].value\_counts()

print(response\_counts)

Output:



Preposition

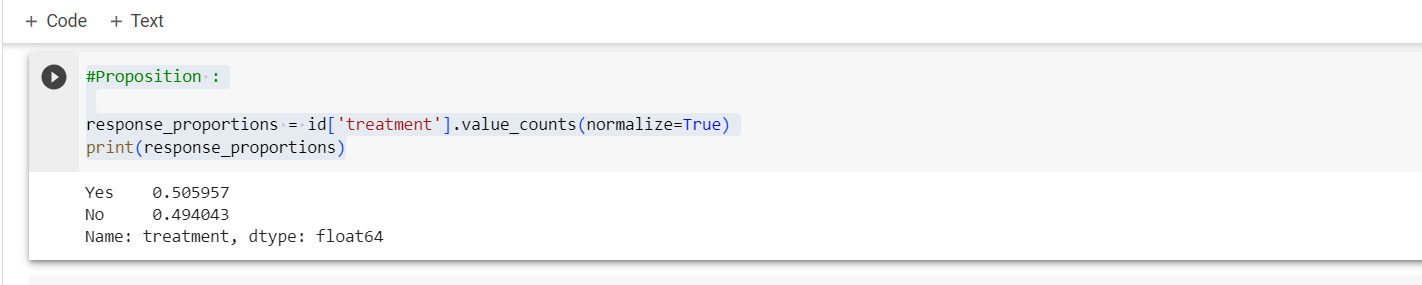
Code:

#Proposition :

response\_proportions = id['treatment'].value\_counts(normalize=True)

print(response\_proportions)

Output:

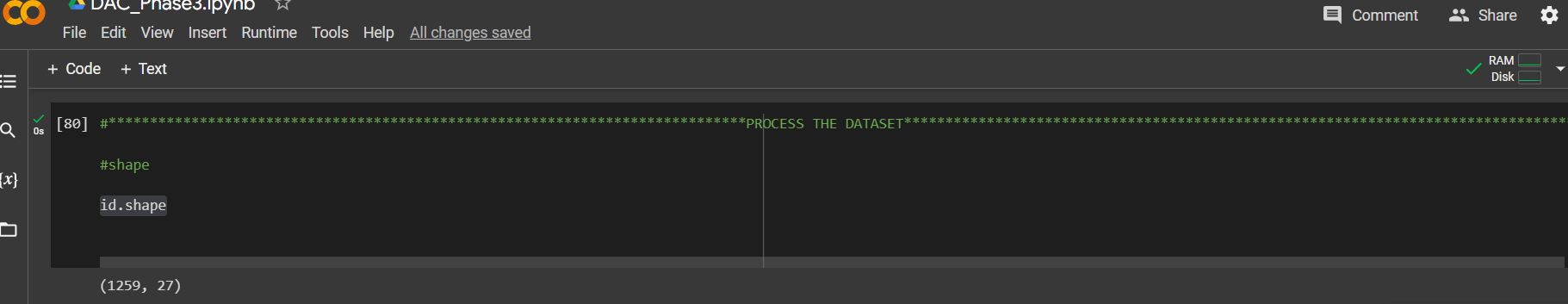


PROCESS & CLEANSING THE DATASET:

CODE:

id.shape

OUTPUT:

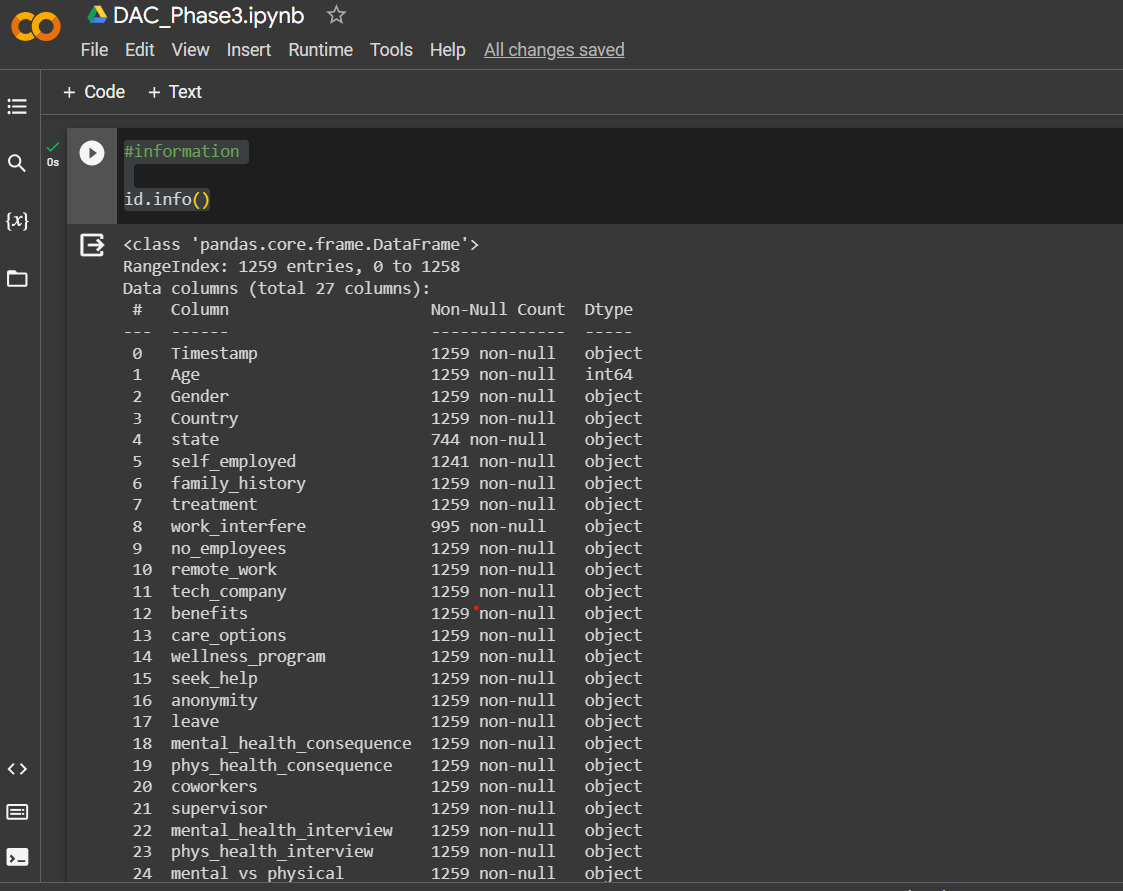


CODE :

#information

id.info()

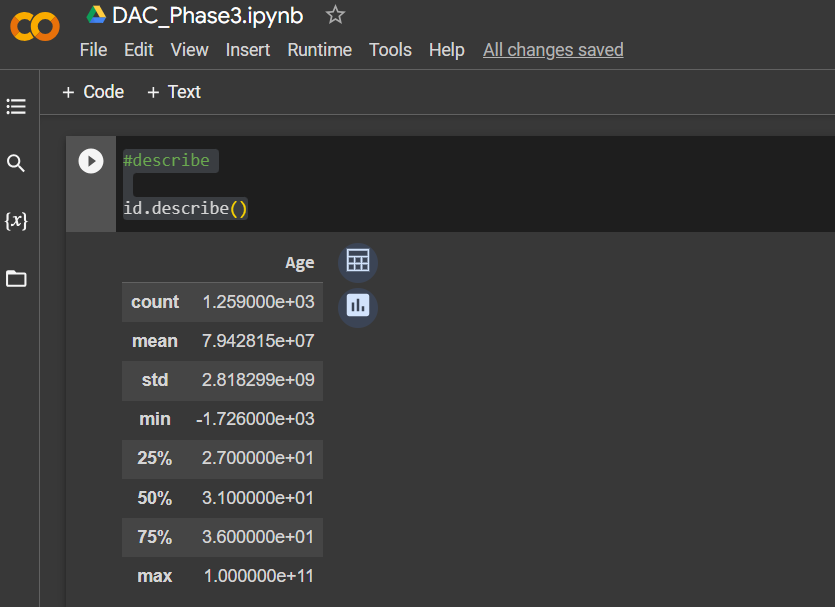
OUTPUT:



CODE :

#describe

id.describe()

OUTPUT:

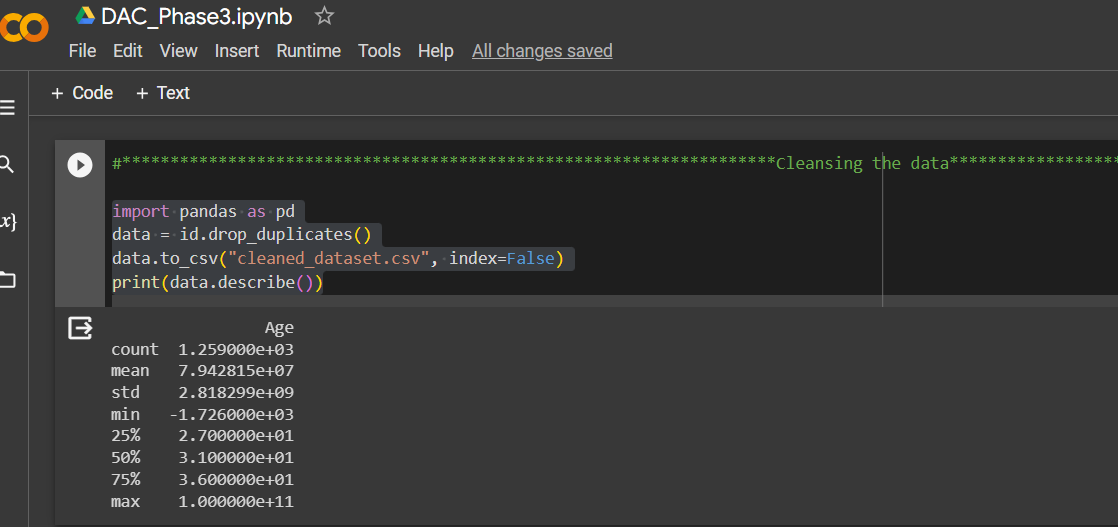
CODE :

import pandas as pd

data = id.drop\_duplicates()

data.to\_csv("cleaned\_dataset.csv", index=False)

print(data.describe())

OUTPUT:

CODE :

#PLOTTING:

import seaborn as sns

import matplotlib.pyplot as plt

sns.countplot(x="Age",data=dt)

plt.figure(figsize=(10,6))

plt.show()

OUTPUT:



ACCURACY :

CODE :

#logistic regression

from sklearn.datasets import make\_classification

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

from sklearn.metrics import accuracy\_score

from sklearn.linear\_model import LogisticRegression

nb\_samples = 1000

x, y = make\_classification(n\_samples=nb\_samples, n\_features=2, n\_informative=2, n\_redundant=0, n\_clusters\_per\_class=1)

xtrain, xtest, ytrain, ytest = train\_test\_split(x, y, test\_size=0.2, random\_state=42)

model = LogisticRegression()

model.fit(xtrain, ytrain)

#Accuracy of the data

print(accuracy\_score(ytest, model.predict(xtest)))

OUTPUT :

