Assignment -2Python Programming

Assignment Date	25 September 2022
Student Name	Jerim Jeevs J
Student Roll Number	720819106043
Maximum Marks	2 Marks

import pandas as pd import matplotlib.pyplot
as plt import
seaborn as sns import numpy as np

2.Loading the data Set

df=pd.read_csv("Churn_Modelling.csv")
df

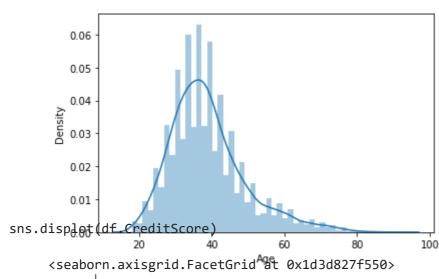


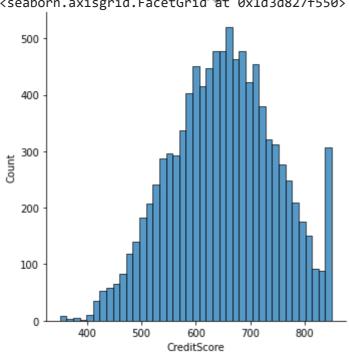
RowNumber CustomerId Surname Cre ditScore Geography Gender Age Tenure

0	1	15634602	Hargrave	619 France Female	42 2
1	2	15647311	Hill 608	Spain Female 41 1	
2	3	15619304	Onio 502	France Female 4	82 8
3	4	15701354	Boni 699	France Female 3	39 1
4	5	15737888	Mitchell	850 Spain Female 4	3 2
***		•••	•••		
9995	9996	15606229	Obijiaku	771 France Male 3	9 5
9996	9997	15569892 Joh	nnstone 516	France Male 35 1	0
9997	9998	15584532	Liu 709	France Female 3	36 7

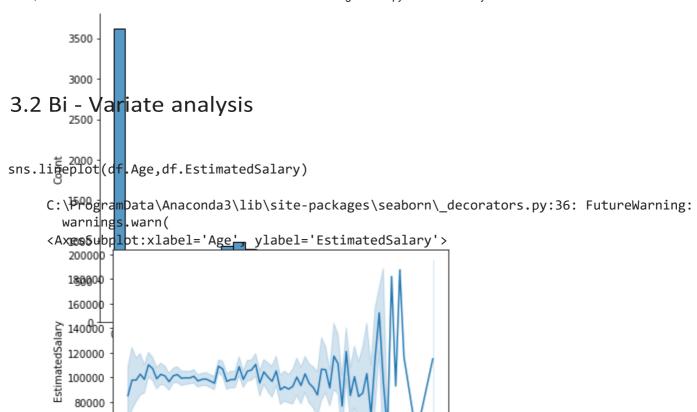
3. Visulaizatoin 3.1

Univariate Analysis

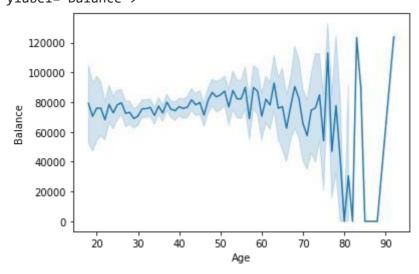




C:\ProgramData\Anaconda3\lib\site-packages\seaborn_decorators.py:36: FutureWarning:



warnings.warn(<AxesSubplot:xlabel='Age',
ylabel='Balance'>



50

Age

60

70

80

90

sns.lineplot(df.Age,df.Exited)

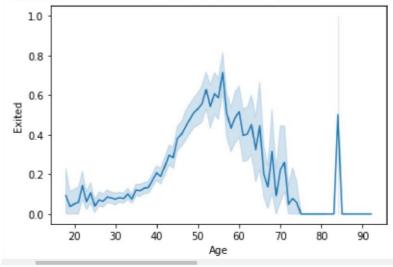
60000 40000

20

30

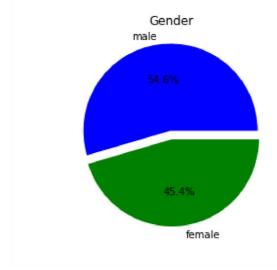
C:\ProgramData\Anaconda3\lib\site-packages\seaborn_decorators.py:36: FutureWarning:
 warnings.warn(

<AxesSubplot:xlabel='Age', ylabel='Exited'>

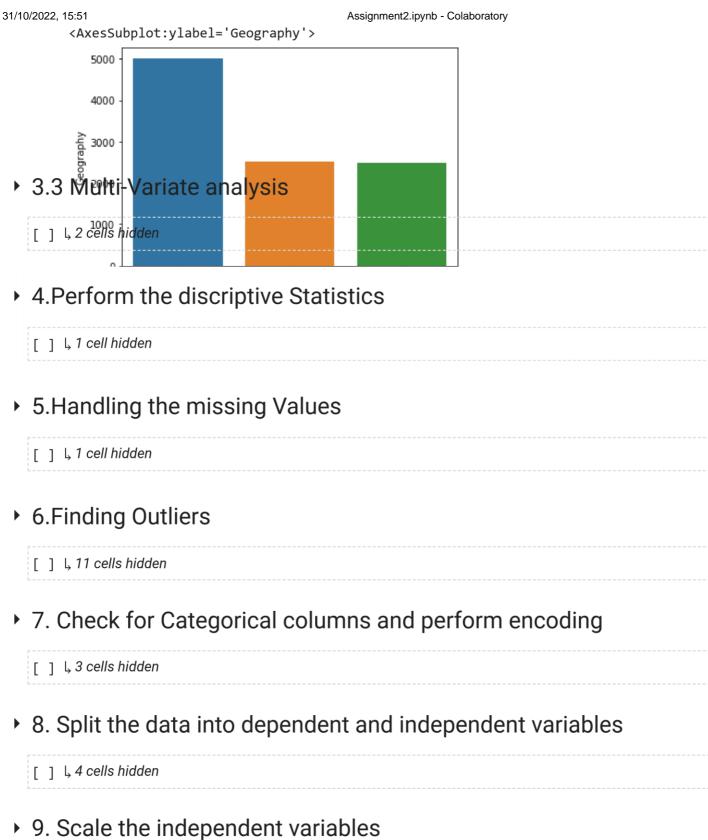


plt.pie(df.Gender.value_counts(),[0.1,0],labels=["male","female"],autopct="%1.1f%%",colors
plt.title("Gender")





sns.barplot(df.Geography.value_counts().index,df.Geography.value_counts())
C:\ProgramData\Anaconda3\lib\site-packages\seaborn_decorators.py:36: FutureWarning:
 warnings.warn(



https://colab.research.google.com/drive/1WxICA1J7PYNt5W_nXbSs229QQEHaNJ-t#printMode=true

10. Split the data into training and testing

[] L, 2 cells hidden

[] L, 2 cells hidden

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