ASSIGNMENT 2

DATE	26 SEPTEMBER 2022.
TEAM ID	PNT2022TMID38674
PROJECT NAME	AI based discourse for Banking industry
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1. Download the dataset



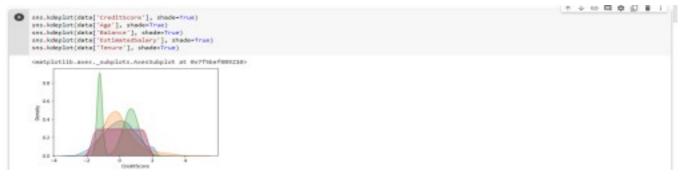
2.Load the dataset

```
import pandas as pd
import numpy as np
import metplotlib.pyplot as plot
import seaborn as sns
data-pd.read_csv('Churn_Modelling.csv')
```

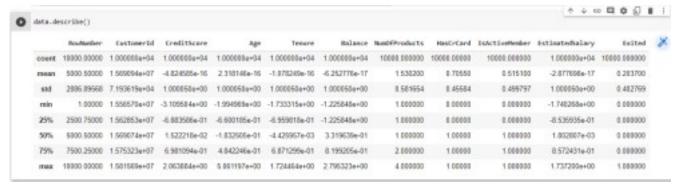
3. perform below visualization

- Univarient
- Bi-varient
- Multi-varient





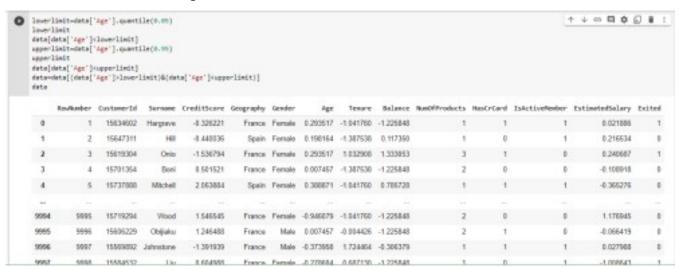
4.Perform the descriptive statistics on the datase



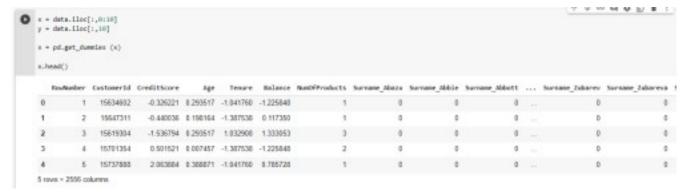
5. Handle the missing values



6. Find the outliers and replace the outliers



7. Check the categorical columns and perform encoding



8. Split the dataset into ipdendent and dependent variables.

```
* = dets.ilec[1,0:10]

y = dets.ilec[1,10]

print(x.shepe)

print(y.shepe)

(7667, 10)
```

9. Scale the independent variable



10. Split the data into training and testing.

```
from sklearn.eodel_selection import train_test_split
s_train, x_test, y_train, y_test = train_test_split(x,y,test_size=0.25,readom_state=0)
print(*_train.shape : ',x_train.shape)
print(*_train.shape : ',y_train.shape)
print(*_test.shape : ',y_test.shape)

s_train.shape : ($750, 2556)
y_train.shape : ($750, 2556)
y_test.shape : ($257,)
```