ASSIGNMENT 2

Assignment Date	24/09/2022
Student Name	ANUVITHA G
Student Roll Number	61771921002
Maximum Marks	2 Marks

Data Visualization and Pre-processing

Perform Below Tasks to complete the assignment: -

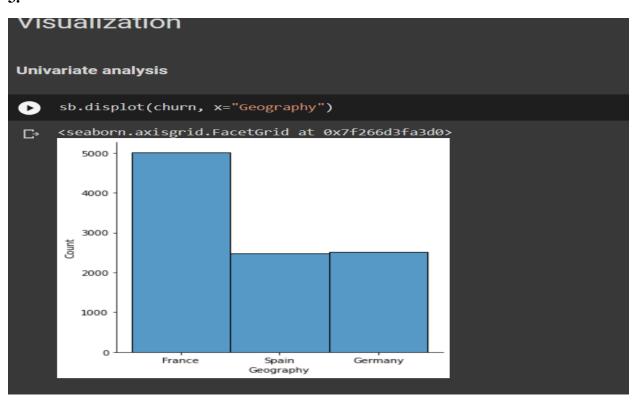
Tasks: -

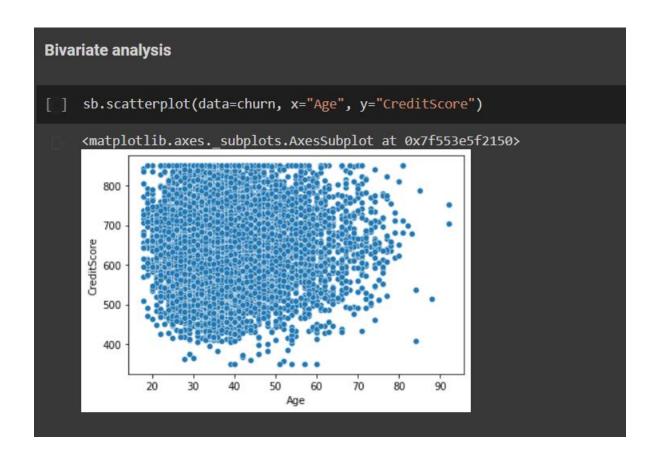
- 1. Download the dataset: Dataset
- 2. Load the dataset.
- 3. Perform Below Visualizations.
- Univariate Analysis
- Bi Variate Analysis
- Multi Variate Analysis
- 4. Perform descriptive statistics on the dataset.
- 5. Handle the Missing values.
- 6. Find the outliers and replace the outliers
- 7. Check for Categorical columns and perform encoding.
- 8. Split the data into dependent and independent variables.
- 9. Scale the independent variables
- 10. Split the data into training and testing

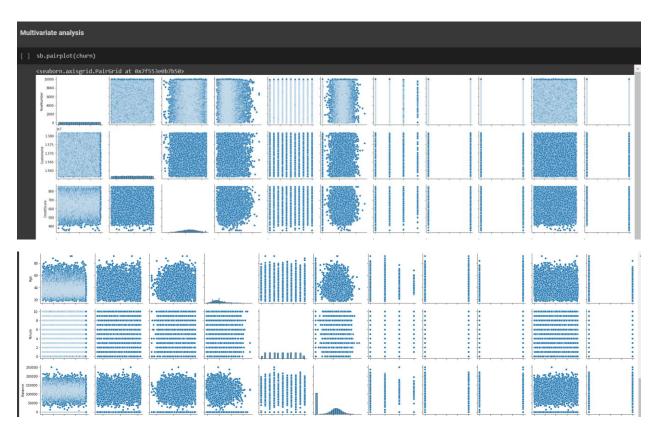
Do	wnloading dataset
[]	<pre>from google.colab import files uploaded = files.upload()</pre>
	Choose Files No file chosen Upload widget is only available when the cell has been executed in the current browser session. Please rerun this cell to enable. Saving Churn_Modelling.csv to Churn_Modelling.csv

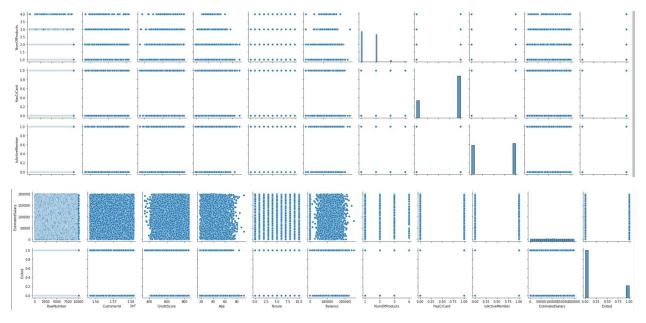
2.

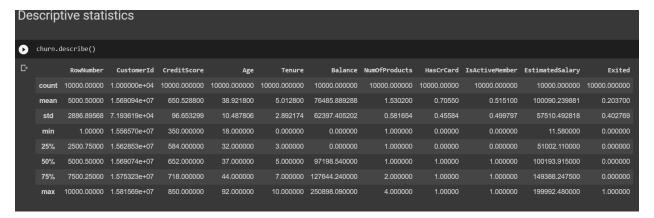
	Loading dataset															
0	<pre>import seaborn as sb import pandas as pd import matplotlib.pyplot as plt churn=pd.read_csv("Churn_Modelling.csv") churn.head()</pre>															
₽		RowNumber	Custon	erId	Surname	CreditScore	Geography	Gender	Age	Tenure	Balance	NumOfProducts	HasCrCard	IsActiveMember	EstimatedSalary	Exited
	0	1	1563	4602	Hargrave	619	France	Female	42		0.00				101348.88	
	1	2	1564	7311	Hill	608	Spain	Female	41		83807.86				112542.58	
	2		1561	9304	Onio	502	France	Female	42		159660.80				113931.57	
	3	4	1570	1354	Boni	699	France	Female	39		0.00	2			93826.63	
	4	5	1573	7888	Mitchell	850	Spain	Female	43		125510.82				79084.10	



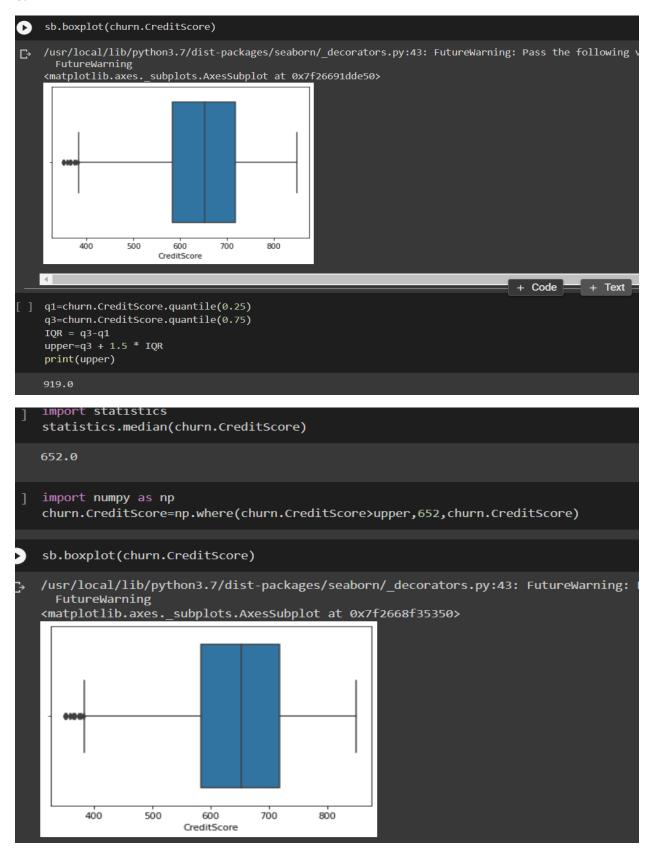












Check for Categorical columns and perform encoding. Checking for categorical column [] churn.dtypes int64 RowNumber CustomerId int64 Surname object CreditScore int64 object Geography Gender object int64 Age Tenure int64 Balance float64 NumOfProducts int64 int64 int64 HasCrCard IsActiveMember EstimatedSalary float64 Exited int64 dtype: object





