**ASSIGNMENT-02**

**DATA VISUALIZATION AND PRE PROCESSING**

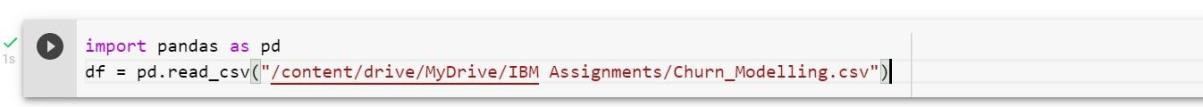
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| --- | --- |
| **Assignment Date** | 22 September 2022 |
| **Student Name** | Prakash S |
| **Student Roll Number** | 113219041085 |
| **Maximum Marks** | 2 Marks |

1. Download the dataset: Dataset Dataset downloaded in csv form.
2. Load the dataset.

import pandas as pd

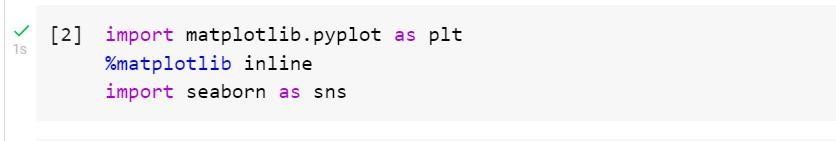
df = pd.read\_csv("/content/drive/MyDrive/IBM

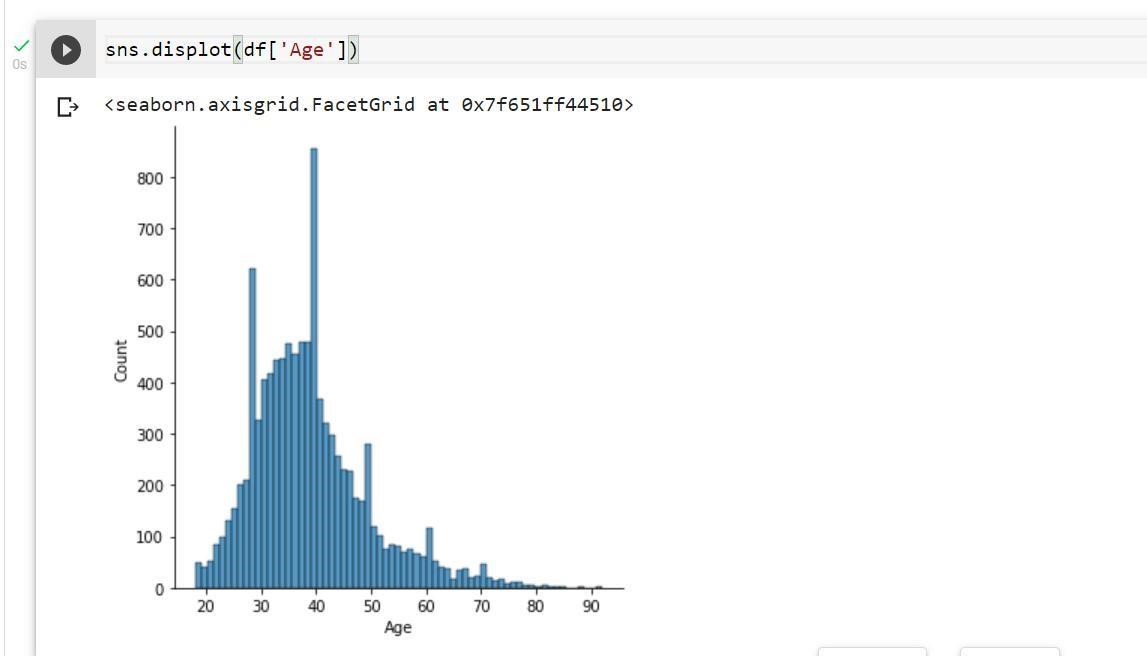
Assignments/Churn\_Modellin g.csv")



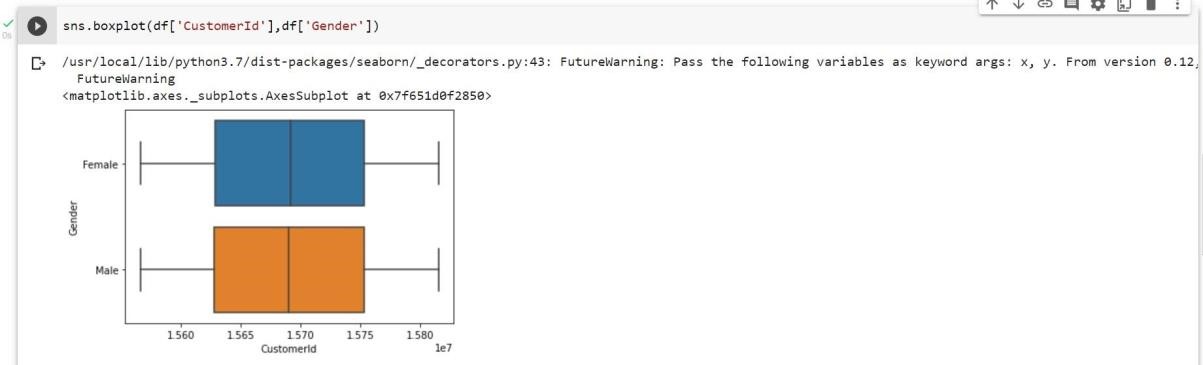
1. Perform Below Visualizations. ● Univariate Analysis

sns.displot(df['Age'])

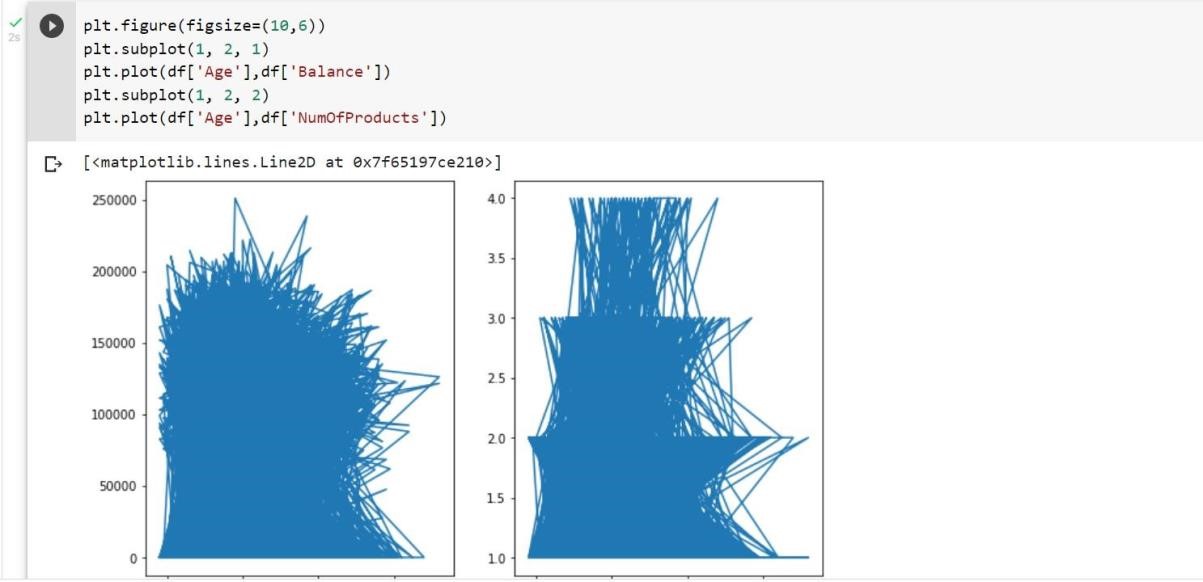




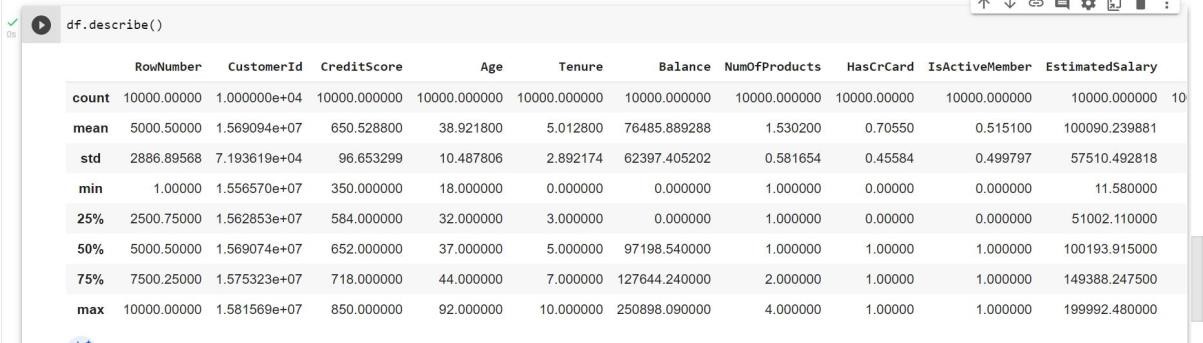
* Bi - Variate Analysis sns.boxplot(df['CustomerId'],df['Gender'])



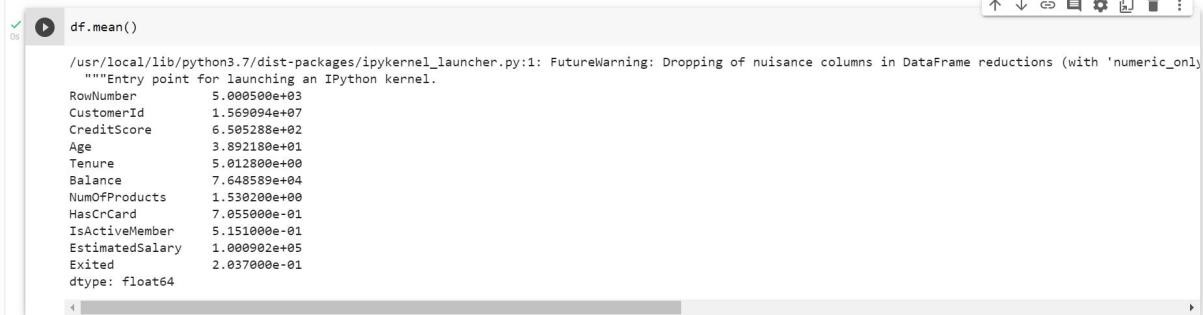
* Multi - Variate Analysis



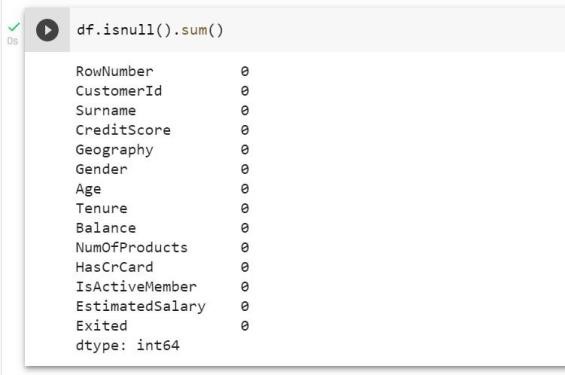
1. Perform descriptive statistics on the dataset.



Mean:



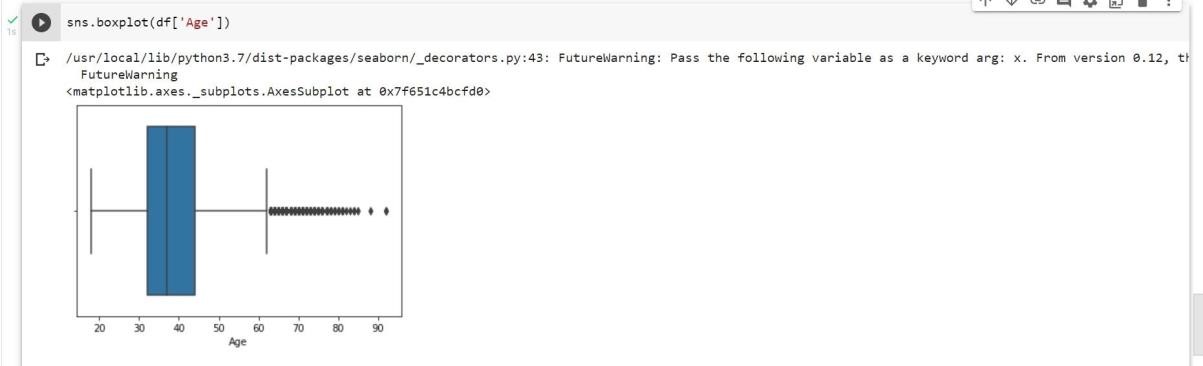
1. Handle the Missing values.



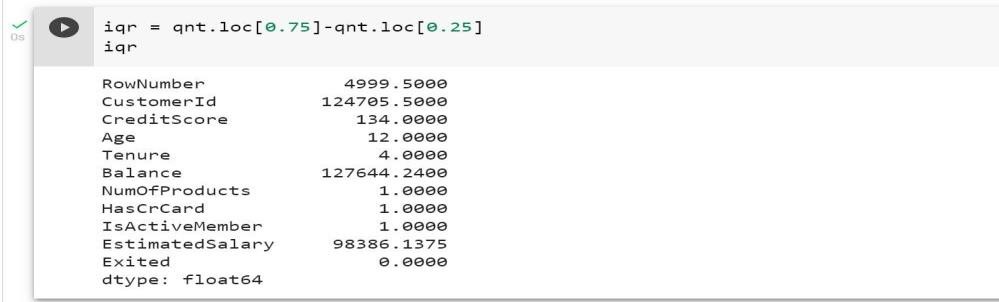
1. Find the outliers and replace the outliers

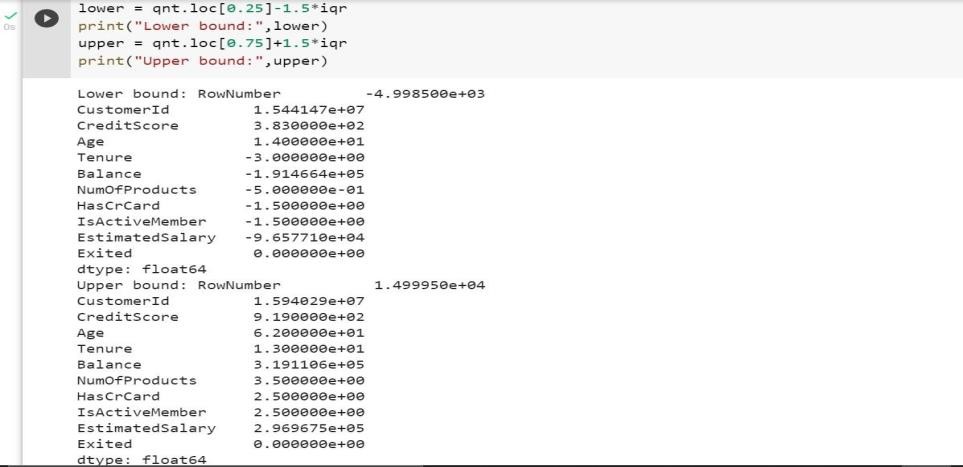
Finding Outliers:

Using Boxplot



Using method



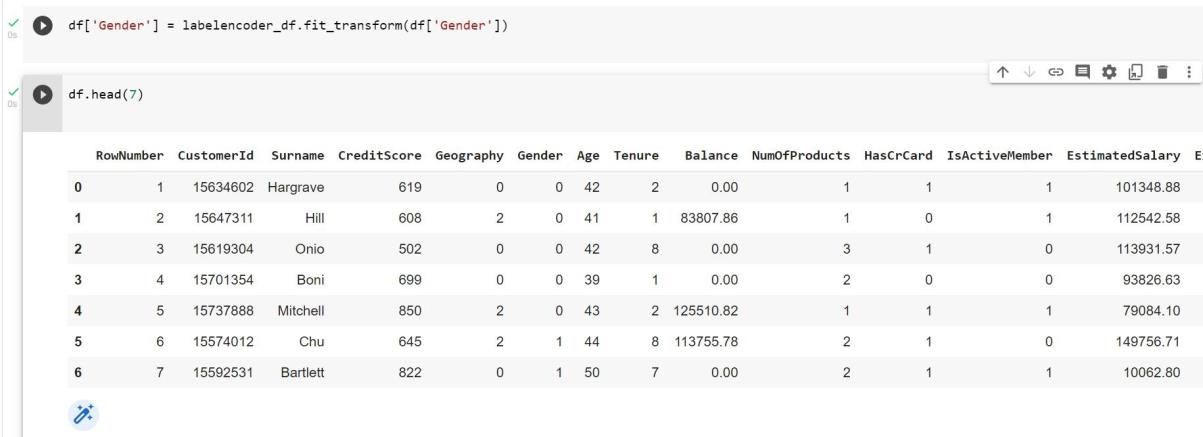


Replacing Outliers:



1. Check for Categorical columns and perform encoding.

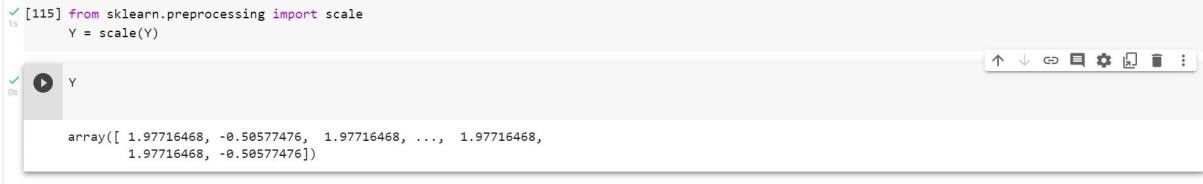
Categorical columns: Geography,Gender



1. Split the data into dependent and independent variables.



1. Scale the independent variables



1. Split the data into training and testing

