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        "3. Perform Below Visualizations.\n",
        "   * Univariate Analysis\n",
        "   * Bi - Variate Analysis\n",
        "   * Multi - Variate Analysis\n",
        "4. Perform descriptive statistics on the dataset.\n",
        "5. Handle the Missing values.\n",
        "6. Find the outliers and replace the outliers\n",
        "7. Check for Categorical columns and perform encoding.\n",
        "8. Split the data into dependent and independent variables.\n",
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        "10. Split the data into training and testing\n",
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.94-2.06-.94 2.06-2.06.94z\"/><path d=\"M17.41 7.96l-1.37-1.37c-.4-.4-
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[key], {});\n",
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"\n",
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the ' +\n",
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table notebook</a>'\n",
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```
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10000.000000  10000.000000  \n",
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76485.889288    1.530200  \n",
          "std      96.653299    10.487806    2.892174
62397.405202    0.581654  \n",
          "min      350.000000    18.000000    0.000000
0.000000    1.000000  \n",
          "25%      584.000000    32.000000    3.000000
0.000000    1.000000  \n",
          "50%      652.000000    37.000000    5.000000
97198.540000    1.000000  \n",
```

```

127644.240000    "75%      718.000000    44.000000    7.000000
                2.000000    \n",
250898.090000    "max      850.000000    92.000000    10.000000
                4.000000    \n",
                "\n",
                "          HasCrCard  IsActiveMember  EstimatedSalary
Exited  \n",
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10000.000000    \n",
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0.203700  \n",
                "std    0.45584    0.499797    57510.492818
0.402769  \n",
                "min    0.00000    0.000000    11.580000
0.000000  \n",
                "25%    0.00000    0.000000    51002.110000
0.000000  \n",
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0.000000  \n",
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1.000000  "
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"      <td>4.000000</td>\n",
"      <td>1.00000</td>\n",
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height=\"24px\" viewBox=\"0 0 24 24\">\n",
"      width=\"24px\">\n",
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2.06-.94-2.06-.94L8.5 2.51-.94 2.06-2.06.94zm10 10l.94
2.06.94-2.06-.94-2.06-.94-2.06-.94L10.3 9.45l-7.72 7.72c-
.78 2.05 0 2.83L4 21.41c.39.39.95.95 1.41.95.46 0 1.02-.2
1.41-.59l7.78-7.78

```

2.81-2.81c.8-.78.8-2.07 0-2.86zM5.41 20L4 18.5917.72-7.72 1.47 1.35L5.41
20z\"/>\"/>

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"\n",
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1px 3px 1px rgba(60, 64, 67, 0.15);\n",
"            fill: #174EA6;\n",
"        }\n",
"\n",
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"            fill: #D2E3FC;\n",
"        }\n",
"\n",
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"            fill: #FFFFFF;\n",
"        }\n",
"    </style>\n",
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90cd-3c8bf1885c86 button.colab-df-convert');\n",
"        buttonEl.style.display =\n",
"            google.colab.kernel.accessAllowed ? 'block' :
'none';\n",
"\n",
"        async function convertToInteractive(key) {\n",
"            const element = document.querySelector('#df-
87b9fdb8-9313-4bb0-90cd-3c8bf1885c86');\n",
"            const dataTable =
```

```

        "                await
google.colab.kernel.invokeFunction('convertToInteractive',\n",
        "
[key], {});\n",
        "                if (!dataTable) return;\n",
        "                \n",
        "                const docLinkHtml = 'Like what you see? Visit
the ' +\n",
        "                '<a target=\"_blank\"
href=https://colab.research.google.com/notebooks/data_table.ipynb>data
table notebook</a>'\n",
        "                + ' to learn more about interactive
tables.';\n",
        "                element.innerHTML = '';\n",
        "                dataTable['output_type'] = 'display_data';\n",
        "                await
google.colab.output.renderOutput(dataTable, element);\n",
        "                const docLink =
document.createElement('div');\n",
        "                docLink.innerHTML = docLinkHtml;\n",
        "                element.appendChild(docLink);\n",
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        "                "
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    "### Since there is no null values this task is skipped"
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                "Age      0\n",
                "Tenure      0\n",
                "Balance      0\n",
                "NumOfProducts      0\n",
                "HasCrCard      0\n",
                "IsActiveMember      0\n",
                "EstimatedSalary      0\n",
                "Exited      0\n",
                "dtype: int64"
            ]
        },
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        "execution_count": 9
    }
]
},
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        "### Outliers are found using the univariate BOXPLOT from Task
3\n",
        "\n"
    ],
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    }
},
{
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'CreditScore'].median()\n",
        "ProdMedian =
data.loc[data['NumOfProducts']>=3.5,'NumOfProducts'].median()\n",
        "\n",
        "data.loc[data.CreditScore < 400, 'CreditScore'] = np.nan\n",
        "data.fillna(CreditsMedian,inplace=True)\n",
        "data.loc[data.NumOfProducts > 3, 'NumOfProducts'] = np.nan\n",
        "data.fillna(ProdMedian,inplace=True)"
    ],
    "metadata": {
        "id": "JGmz68Tdr6hp"
    },
    "execution_count": null,
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{
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    ],

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      "data['Geography']=\nlabelencoder.fit_transform(data['Geography'])\n",
      "data['Gender'] = labelencoder.fit_transform(data['Gender']) \n"
    ],
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      "dependent = data.iloc[:, -1]"
    ],
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      "id": "zblv64jH9Bzf"
    },
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      "N_independent = nm.fit_transform(independent)"
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    "execution_count": null,

```

```

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    }
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size=0.3)\n",
      "print(xtrain,xtest,ytrain,ytest)"
    ],
    "metadata": {
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0.05173219]\n",
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0.41803927]\n",
          "[0.80824742 0.          0.          ... 1.          1.
0.77170315]] [[0.61649485 0.          1.          ... 1.          1.
0.81361825]\n",
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