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    "3.Perform Below Visualizations.\n",  
    "  Univariate Analysis\n",  
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    "  Bi - Variate Analysis\n",  
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    "  Multi - Variate Analysis\n",  
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    "4.Perform descriptive statistics on the dataset.\n",  
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    "5.Handle the Missing values.\n",  
    "\n",  
    "6.Find the outliers and replace the outliers\n",  
    "\n",  
    "7.Check for Categorical columns and perform encoding.\n",  
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    "8.Split the data into dependent and independent variables.\n",
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```

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"      buttonEl.style.display =\n",
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"\n",
"      async function convertToInteractive(key) {\n",
"        const element = document.querySelector('#df-5e2d889a-77e7-47dc-89f9-a6ccb6a644d2');\n",
"        const dataTable =\n",
"          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",

```



```

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    "cell_type": "code",

```

```

"source": [
    "CreditsMedian = data.loc[data['CreditScore']<400, '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": "bhyLa2F3zTTY"
},
"execution_count": 12,
"outputs": []
},
{
    "cell_type": "markdown",
    "source": [
        "##Label Encoding (Categorical)"
    ],
    "metadata": {
        "id": "7FWQxBbSzYAA"
    }
},
{

```

```

"cell_type": "code",
"source": [
    "labelencoder = LabelEncoder()\n",
    "data['Geography']= labelencoder.fit_transform(data['Geography'])\n",
    "data['Gender'] = labelencoder.fit_transform(data['Gender'])"
],
"metadata": {
    "id": "iLnrr9qqzeGL"
},
"execution_count": 13,
"outputs": []
},
{
    "cell_type": "markdown",
    "source": [
        "##Seperating Dependent and Independent Values"
    ],
    "metadata": {
        "id": "lkoDk6zYzjYI"
    }
},
{
    "cell_type": "code",
    "source": [
        "independent = data.iloc[:, :-1]\n",

```

```

    "dependent = data.iloc[:, -1:]"
],
"metadata": {
    "id": "R9G7yDu3zk5c"
},
"execution_count": 17,
"outputs": []
},
{
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    "source": [
        "##Scaling the Independent Variables"
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    "metadata": {
        "id": "1x5WUPFv0I7z"
    }
},
{
    "cell_type": "code",
    "source": [
        "nm =MinMaxScaler()\n",
        "N_independent = nm.fit_transform(independent)"
    ],
    "metadata": {
        "id": "SUphbKaj0Lsp"
    }
}

```

```
},
"execution_count": 21,
"outputs": []
},
{
  "cell_type": "markdown",
  "source": [
    "##Splitting the Train and Test Data"
  ],
  "metadata": {
    "id": "SpQ1f7HI0WRx"
  }
},
{
  "cell_type": "code",
  "source": [
    "xtrain,xtest,ytrain,ytest=train_test_split(N_independent,dependent,test_size=0.3)\n",
    "print(xtrain,xtest,ytrain,ytest)"
  ],
  "metadata": {
    "id": "880ocXUc0ZqY",
    "outputId": "626278ea-029a-4725-9893-d10dceba74ed",
    "colab": {
      "base_uri": "https://localhost:8080/"
    }
  }
}
```

```

},
"execution_count": 22,
"outputs": [
{
  "output_type": "stream",
  "name": "stdout",
  "text": [
    "[[0.67835052 0.    1.    ... 0.    1.    0.16659156]\n",
    " [0.15257732 1.    1.    ... 1.    0.    0.99440967]\n",
    " [0.61443299 0.    1.    ... 1.    1.    0.36157048]\n",
    "... \n",
    " [0.99793814 0.    1.    ... 0.    1.    0.7894768 ]\n",
    " [0.38350515 0.    0.    ... 1.    1.    0.25568367]\n",
    " [0.85360825 0.    0.    ... 1.    0.    0.63969949]] [[0.42680412 0.    0.    ... 0.    1.
0.87515203]\n",
    " [0.88453608 1.    1.    ... 1.    0.    0.11793456]\n",
    " [0.97731959 0.    0.    ... 1.    1.    0.34548124]\n",
    "... \n",
    " [0.66391753 0.    1.    ... 1.    0.    0.05161728]\n",
    " [0.60824742 0.    0.    ... 0.    1.    0.93805653]\n",
    " [0.82886598 1.    1.    ... 1.    1.    0.12362516]]    Exited\n",
    "3135    0\n",
    "2872    1\n",
    "9018    0\n",
    "867     1\n",
    "4253    0\n",

```



```
"...  ...\\n",  
  
"2775  1\\n",  
  
"8622  0\\n",  
  
"4857  0\\n",  
  
"7883  0\\n",  
  
"9554  1\\n",  
  
"\\n",  
  
"[7000 rows x 1 columns]  Exited\\n",  
  
"7015  0\\n",  
  
"2345  0\\n",  
  
"3797  1\\n",  
  
"4267  0\\n",  
  
"3696  0\\n",  
  
"...  ...\\n",  
  
"6834  0\\n",  
  
"5356  1\\n",  
  
"302   0\\n",  
  
"8390  1\\n",  
  
"4776  0\\n",  
  
"\\n",  
  
"[3000 rows x 1 columns]\\n"  
  
]  
  
}  
  
]  
  
}
```

]

}