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 "#
                 Data Visualization and Pre-processing"
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"\n",
"import pandas as pd\n",
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```

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"M=df['CreditScore'].mean()\n",
"\n",
"#median of CreditScore\n",
"Me=df['CreditScore'].median()\n",
"\n",
"# standard deviation of CreditScore\n",
"std = df['CreditScore'].std()\n",
"\n",
"print(\"mean value of CreditScore is \{\}\".format(M)\\n",
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"\n",
"#frequency table for age\n",
```

```
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"Tenure
            -0.006495 -0.014883
                                 0.000842 - 0.009997 \ 1.000000 \ n''
"Balance
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                                 0.006268 \ 0.028308 - 0.012254 \ n",
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                                     0.012238 - 0.030680 \ 0.013444 \ n",
"HasCrCard
               0.000599 - 0.014025 - 0.005458 - 0.011721 \ 0.022583 \ n",
"IsActiveMember 0.012044
                          0.001665
                                     0.025651 \ 0.085472 - 0.028362 \ n''
"EstimatedSalary -0.005988 0.015271 -0.001384 -0.007201 0.007784 \n",
"Exited
            -0.016571 -0.006248 -0.027094 0.285323 -0.014001 \n",
"\n",
          Balance NumOfProducts HasCrCard IsActiveMember \\\n",
```

```
"RowNumber
                    -0.009067
                                  0.007246 0.000599
                                                          0.012044 \ n'',
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                                                        0.001665 \ n'',
  "CreditScore
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                               0.012238 -0.005458
                                                        0.025651 \ n''
  "Age
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                            -0.030680 -0.011721
                                                     0.085472 \ n'',
  "Tenure
                -0.012254
                              0.013444 0.022583
                                                      -0.028362 \n".
                             -0.304180 -0.014858
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                                                           0.009612 \ n'',
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                                0.003183 1.000000
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                                  0.009612 -0.011866
                                                           1.000000 \ \n''
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                                                     -0.156128 \ n'',
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                    0.012097 1.000000 "
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                                                           n'',
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"======\n

```
"Dep. Variable:
                         CreditScore R-squared:
                                                                0.000 \n''
  "Model:
                           OLS Adj. R-squared:
                                                            -0.000\n'',
  "Method:
                      Least Squares F-statistic:
                                                            0.3929\n''
  "Date:
                  Sun, 25 Sep 2022 Prob (F-statistic):
                                                                0.531\n''
  "Time:
                        13:06:05 Log-Likelihood:
                                                             -59900.\n",
  "No. Observations:
                              10000 AIC:
                                                           1.198e+05\n'',
  "Df Residuals:
                             9998 BIC:
                                                        1.198e+05\n''
                                                         n'',
  "Df Model:
                              1
  "Covariance Type:
                            nonrobust
                                                               n'',
                   std err
                                             [0.025]
                                                       0.975]\n",
             coef
                                     P>|t|
                                                                  --\n",
             649.7861
  "const
                          1.529 424.948
                                                       646.789
                                                                  652.783\n",
                                              0.000
  "Balance
              9.71e-06
                         1.55e-05
                                      0.627
                                               0.531
                                                      -2.07e-05
                                                                  4.01e-05\n'',
                                                                                                                ∍∖n
  "Omnibus:
                          132.594 Durbin-Watson:
                                                                2.014\n''
  "Prob(Omnibus):
                              0.000 Jarque-Bera (JB):
                                                                84.114\n",
  "Skew:
                         -0.072 Prob(JB):
                                                        5.43e-19\n",
  "Kurtosis:
                          2.574 Cond. No.
                                                         1.56e+05\n",
  "\n",
  "Notes:\n",
  "[1] Standard Errors assume that the covariance matrix of the errors is correctly specified.\n",
  "[2] The condition number is large, 1.56e+05. This might indicate that there are\n",
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"# response variable\n",
"y = df['CreditScore']\n",
"\n".
"# explanatory variable\n",
x = df[[Balance']] n',
"#add constant to predictor variables\n",
"x = \text{sm.add constant}(x) \ n",
"\n",
"#fit linear regression model\n",
"model = sm.OLS(y, x).fit()\n",
"#view model summary\n",
"print(model.summary())"
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  "import seaborn as sns\n"
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  "### ii. A Scatterplot with the Data Points Labelled by their Group\n",
  "### iii. A Profile Plot\n",
  "### iv. Calculating Summary Statistics for Multivariate Data\n",
  "### v. Means and Variances Per Group\n",
  "### vi. Between-groups Variance and Within-groups Variance for a Variable\n",
  "### vii. Between-groups Covariance and Within-groups Covariance for Two Variables\n",
  "### viii. Calculating Correlations for Multivariate Data\n",
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                                          1.00000
                                                       1.000000 \n".
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                             4.000000
                                          1.00000
                                                       1.000000 \ \n''
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  "50%
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                              0.000000 \ n".
  "75%
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                              1.000000 "
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  "Tenure
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  "Balance
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  "IsActiveMember
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  "EstimatedSalary False\n",
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  "Gender
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  "Age
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  "Balance
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"X = df.iloc[:, :-1].values n",
"print(X)"
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  "3 -1.769303 -1.137636
                            -0.490921\n",
  "4 1.179536 0.797236
                           -1.636059"
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"X scale=X scaled.head()\n",
"X scale"
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"\n".
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"</style>\n",
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" <thead>\n",
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"
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    Balance\n",
    EstimatedSalary\n",
**
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" </thead>\n",
" <tbody>\n",
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     0.00  n''
     101348.88  \n''
**
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"
    112542.58\n",
   \n",
**
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     42  n''
"
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   \n",
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11
     39  n''
     0.00  n''
"
    93826.63\n",
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   \n''.
    \n'',
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     43  n''
     125510.82  n'',
     79084.10  n''
```

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**
    <th>...</th>\n",
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     ...  \n''
     ...  \n''
**
     ...  \n''
"
   \n",
"
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"
    39\n",
"
     0.00  n''
**
     96270.64  n",
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   \n",
"
    n''
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     35  n''
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     57369.61  n''
     101699.77  \n''
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     42  n"
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"
    n''
"
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**
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" \n",
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"2
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          0.00
"4
                    79084.10\n",
    43 125510.82
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```

```
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  "9999
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        [0.29351742, 1.33305335, 0.2406869],\n",
  "
        ...,\n",
        [-0.27860412, -1.22584767, -1.00864308],\n",
        [0.29351742, -0.02260751, -0.12523071],\n",
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"sc = StandardScaler()\n",
"x scaled1 = sc.fit transform(x)\n",
"x_scaled1"
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"#train and test data\n",
"from sklearn.model selection import train test split\n",
"x train, x test, y train, y test = train test split(x scaled1, y, test size = 0.3, random state = 0)"
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  "
        [ 3.53553951, 1.35419118, -1.49965629],\n",
        ...,\n".
        [-0.37395771, 1.35890908, 1.41441489],\n",
       [-0.08789694, -1.22584767, 0.84614739],\n'',
        [ 0.86563897, 0.50630343, 0.32630495]])"
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 "metadata": {},
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  "
       [0.29351742, 0.30292727, -0.4235611],\n",
        ...,\n",
        [ 0.10281024, 1.46672809, 1.17045451],\n",
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  "202
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  "5625 143262.04\n",
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  "9225 120074.97\n",
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  "9845
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```

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   "2398
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   "5906 112079.58\n",
   "2343 163034.82\n",
          ... \n",
   "4004
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   "7375
           80926.02\n",
   "9307
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   "8394
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   "5233
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  "#
                 Data Visualization and Pre-processing"
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                                              France Female 42 \n",
   "0
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                                         619
   "1
            2
               15647311
                             Hill
                                      608
                                            Spain Female 41 \n",
   "2
            3
                                       502 France Female 42 \n",
                15619304
                             Onio
   "3
                                       699 France Female 39 \n",
            4
                15701354
                             Boni
   "4
                15737888 Mitchell
                                        850
                                              Spain Female 43 \n",
                                                n''
   "9995
            9996
                                            771 France Male 39 \n",
                   15606229 Obijiaku
   "9996
            9997
                   15569892 Johnstone
                                            516 France Male 35 \n",
                                          709 France Female 36 \n",
   "9997
            9998
                   15584532
                                 Liu
   "9998
            9999
                   15682355 Sabbatini
                                            772 Germany Male 42 \n",
   "9999
            10000 15628319
                                Walker
                                            792 France Female 28 \n",
   "\n",
       Tenure Balance NumOfProducts HasCrCard IsActiveMember \\\n",
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                                   1
                                             1 \ n'',
                            1
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                                               1 \n".
                              1
                                     0
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           8 159660.80
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                0.00
   "4
           2 125510.82
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```

```
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            3 75075.31
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                                         1
  "9999
            4 130142.79
                                  1
                                          1
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  "\n",
      EstimatedSalary Exited \n",
  "0
           101348.88
                          1 \ n''
  "1
           112542.58
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  "2
           113931.57
                          1 \ n''
  "3
           93826.63
                         0 \ n''
  "4
           79084.10
                         0 \ n''
  "...
                   ... \n",
              •••
  "9995
                           0 \ n''
             96270.64
  "9996
             101699.77
                            0 \ n''
  "9997
             42085.58
                           1 \ n''
  "9998
             92888.52
                           1 \n".
  "9999
             38190.78
                           0 \ n''
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  "[10000 rows x 14 columns]\n"
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"df=pd.read csv(\"Churn Modelling.csv\") # import dataset\n",
"print(df)"
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"metadata": {},
"source": [
"# B - Perform Below Visualizations.\n",
     1. Univarient Analysis \n",
       There are three ways to perform univarient analysis \n",
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"##
        i) Summary statistics\n"
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  "mean value of CreditScore is 650.5288\n",
  "median value of CreditScore is 652.0\n",
  "Standard deviation of CreditScore is 96.65329873613061\n"
```

```
"source": [
"# Summary statistics\n",
"import pandas as pd\n",
"df=pd.read csv(\"Churn Modelling.csv\")\n",
"\n",
"#mean of CreditScore\n",
"M=df['CreditScore'].mean()\n",
"\n",
"#median of CreditScore\n",
"Me=df['CreditScore'].median()\n",
"# standard deviation of CreditScore\n",
"std = df['CreditScore'].std()\n",
"\n",
"print(\"mean value of CreditScore is {}\".format(M))\n",
"print(\"median value of CreditScore is {}\".format(Me))\n",
"print(\"Standard deviation of CreditScore is {}\".format(std))"
},
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        ii) Frequency table"
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  "38 477\n",
  "35 474\n",
  "36 456\n",
  "34 447\n",
     ... \n",
  "92
         2\n".
  "82
         1\n'',
  "88
         1\n''.
  "85
         1\n".
  "83
         1\n''.
  "Name: Age, Length: 70, dtype: int64\n"
}
```

```
],
"source": [
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"import pandas as pd\n",
"df=pd.read csv(\"Churn Modelling.csv\")\n",
"\n",
"#frequency table for age\n",
"ft=df['Age'].value counts()\n",
"\n".
"print(\"Frequency table for Age is given below\")\n",
"print(\"{}\".format(ft))"
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"\n",
"##
       iii) Charts"
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                                       619 France Female 42 \n",
          1
 "1
          2
             15647311
                          Hill
                                    608
                                           Spain Female 41 \n",
  "2
          3
             15619304
                           Onio
                                     502
                                          France Female 42 \n",
  "3
          4
                                     699 France Female 39 \n",
             15701354
                           Boni
  "4
          5
             15737888 Mitchell
                                      850
                                             Spain Female 43 \n",
  "\n",
  " Tenure
             Balance NumOfProducts HasCrCard IsActiveMember \\\n",
  "0
        2
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                          1
                                            1 \ n'',
                                 1
  "1
        1 83807.86
                            1
                                   0
                                              1 \ n''
  "2
                                              0 \ n''
        8 159660.80
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  "3
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  "4
        2 125510.82
                             1
                                    1
                                              1 \ n''
  "\n",
    EstimatedSalary Exited \n",
  "0
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                       1 \n",
  "1
                       0 \ n''
         112542.58
  "2
         113931.57
                       1 \ n''
  "3
         93826.63
                      0 \ n''
  "4
         79084.10
                      0 \ n''
{
```

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                          2.574 Cond. No.
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"#add constant to predictor variables\n",
"x = sm.add constant(x)\n",
"\n",
"#fit linear regression model\n",
"model = sm.OLS(y, x).fit()\n",
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"#view model summary\n",
"print(model.summary())"
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  "### v. Means and Variances Per Group\n",
  "### vi. Between-groups Variance and Within-groups Variance for a Variable\n",
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        1.00000 1.556570e+07 350.000000
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                                                   0.000000 \ \n".
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                                                     3.000000 \ \n''
"50%
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"75%
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                              718.000000
                                          44.000000
                                                     7.000000 \ \n''
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                                                     92.000000
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                                       0.45584
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                         1.000000
                                      0.00000
                                                  0.000000 \ \n''
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                          1.000000
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                              0.000000 \ n''
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                             1.000000 "
  "max
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 "# 5. Handle the Missing values."
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  "Geography
                   False\n",
  "Gender
                  False\n",
```

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  "Tenure
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  "Balance
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  "NumOfProducts
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  "NumOfProducts
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"
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"
  France\n",
   0  n"
**
   42  n''
"
   2  n''
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" 1 n''

" 1 n''

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" 1 n''

** $\n",$

**

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** <th>1\n",

" 2 n''

15647311 n'',

" $Hill\n",$

" 608 n''

** Spain\n",

" 0 n''

" 41 n''

** 1 n''

** 83807.86\n",

" $1 \n''$

0 n''

** 1 n''

" 112542.58 n'',

** 0 n''

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** n''

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15619304 n",

" $Onio \n''$

" 502 n''

France\n",

" 0 n''

" 42 n''

8 n"

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** 3 n''

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** 1 n''

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" $\n'',$

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4 n"

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699 n''

France\n",

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"
     2  n''
**
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          15619304
                      Onio
                               502
                                   France
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          15701354
                      Boni
                               699
                                   France
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"4
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          15737888 Mitchell
                               850
                                             0 \ 43 \ n''
                                     Spain
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"3
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  "
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     Gender\n",
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  "
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"
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"
  France\n",
   0  n"
**
   42  n''
"
   2  n''
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0.00 n''1 n''

" 1 n''

" 1 n''

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" 1 n''

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**

" $\n'',$

** <th>1\n",

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0 n''

** 1 n''

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** 0 n''

" $\n",$

** n''

" <th>2</th>n",

11 3 n''

15619304 n",

" $Onio \n''$

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France\n",

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" 42 n''

8 n"

" 159660.80 n''

** 3 n''

" 1 n''.

" 0 n''

" 113931.57\n",

** 1 n''

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" $\n'',$

" <th>3</th>n",

4 n"

** $15701354 \n''$

" Boni n'',

699 n''

France\n",

```
 0  n''
"
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"
     1  n''.
"
     0.00  n''
"
     2  n''
**
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"
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**
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                                             0 \ 43 \ n''
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11
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"
    39  n''
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    1  n''
"
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**
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**
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"
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    5  n''
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"
   Mitchell\n",
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"
    0  n''.
"
    43  n''
"
    2  n''
"
    125510.82  n'',
"
    1  n''
**
    1  n''
"
    1  n''
"
    79084.10  n''
"
    0  n''.
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                   Hill
                          608
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                                       1 \ n'',
"2
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         15619304
                   Onio
                           502
                                 0 42
                                        8 \n",
"3
      4
                           699
                                 0 39
                                        1 \ n''
         15701354
                   Boni
"4
         15737888 Mitchell
                            850
                                 0 43
                                         2 \ \n''
"\n",
```

```
Balance NumOfProducts HasCrCard IsActiveMember EstimatedSalary \\\n",
  "0
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                             1
                                        1
                                              101348.88 \n",
  "1 83807.86
                        1
                                0
                                                 112542.58 \n",
                                          1
                                                 113931.57 \n",
  "2 159660.80
                         3
                                1
                                           0
  "3
                      2
                             0
         0.00
                                        0
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  "4 125510.82
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                                1
                                           1
                                                  79084.10 \n",
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                     1
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                                 0
  "4
         0
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  " [2 15647311 'Hill' ... 0 1 112542.58]\n",
  " [3 15619304 'Onio' ... 1 0 113931.57]\n",
  " ...\n",
  " [9998 15584532 'Liu' ... 0 1 42085.58]\n",
  " [9999 15682355 'Sabbatini' ... 1 0 92888.52]\n",
  " [10000 15628319 'Walker' ... 1 0 38190.78]]\n"
"source": [
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```
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"df=pd.read csv(\"Churn Modelling.csv\")\n",
"X = df.iloc[:, :-1].values n",
"print(X)"
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"Y = df.iloc[:, -1].values n",
"print(Y)"
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```

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"
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     39  n''
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**
    \n'',
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**
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"1 41 83807.86
                 112542.58\n",
"2 42 159660.80
                 113931.57\n",
"3 39
        0.00
               93826.63\n",
"4 43 125510.82
                 79084.10"
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       [0.75]
                      , 1.
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       [1.
               , 0.78610918, 0.
                                    ]])"
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"mm = MinMaxScaler()\n",
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"x scaled"
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       [ 0.44232587, 1.32369179, 1.07074687],\n",
       [-1.76930347, -1.13763618, -0.49092058],\n",
       [ 1.17953565, 0.79723632, -1.6360585 ]])"
```

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"# 10. Split the data into training and testing"
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     EstimatedSalary\n",
    \n",
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 "
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      101348.88  n'',
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```

```
93826.63\n",
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**
   \n'',
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    43  n''
**
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"
    79084.10  \n''
"
  \n",
   \n''
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"
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    ...  \n''
"
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**
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**
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"
   39\n",
    0.00  n''
"
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  \n",
"
   n''
"
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"
    35  n"
**
   57369.61\n",
   101699.77\n",
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"
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**
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                  112542.58\n",
    42 159660.80
                  113931.57\n",
"3
    39
         0.00
                93826.63\n",
```

```
"4
       43 125510.82
                           79084.10\n",
                        ...\n",
  "9995 39
                0.00
                          96270.64\n",
  "9996 35 57369.61
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  "4
        125510.82\n",
         ... \n",
  "9995
             0.00\n''
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          130142.79\n",
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"y = df['Balance']\n",
```

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"x scaled1 = sc.fit transform(x)\n",
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"#train and test data\n",
"from sklearn.model selection import train test split\n",
"x train, x test, y train, y test = train test split(x scaled1, y, test size = 0.3, random state = 0)"
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```

```
[ 3.53553951, 1.35419118, -1.49965629],\n",
  "
  "
       [-0.37395771, 1.35890908, 1.41441489],\n",
       [-0.08789694, -1.22584767, 0.84614739],\n",
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