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 "# A - Load the dataset"
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 "#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",
 "print(\"median value of CreditScore is {}\".format(Me))\n",
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             15647311
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 "### vi. Between-groups Variance and Within-groups Variance for a Variable\n",
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"Q1= Id1.CreditScore.quantile(0.25)\n",
"Q3=Id1.CreditScore.guantile(0.75)\n",
"IQR=Q3-Q1\n",
"upper limit =Q3 + 1.5*IQR\n",
"lower limit =Q1 - 1.5*IQR\n",
"ld1['CreditScore'] = np.where(ld1['CreditScore']>upper_limit,30,ld1['CreditScore'])\n",
"sns.boxplot(ld1.CreditScore)"
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"X_scaled=pd.DataFrame(scale(q),columns=q.columns)\n",
```

],

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"X_scale=X_scaled.head()\n",
 "X_scale"
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 "# 10. Split the data into training and testing"
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  "\n",
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   "\n",
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      <th></th>\n",
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      Balance\n",
       EstimatedSalary\n",
     \n",
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  " \n",
     \n",
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       42\n",
```

```
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101348.88\n",
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112542.58\n",
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\n",
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4\n",
43\n",
125510.82\n",
79084.10\n",
\n",
\n",
...\n",
\...\n",
\...\n",
\...\n",
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 0.00  n",
96270.64\n",
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\n",
9996\n",
35\n",
57369.61\n",
101699.77\n",
\n",
\n",
9997\n",
```

 $36\n",$

```
 0.00  n"
     42085.58\n",
    \n",
    \n",
     9998\n",
     42\n",
     75075.31\n",
     92888.52\n",
    \n",
    \n",
     9999\n",
     28\n",
     130142.79\n",
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    \n",
  " \n",
  "\n",
  "<p>10000 rows × 3 columns<math></p>\n",
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  "1
      41 83807.86
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  "2
      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
                        101699.77\n",
  "9997 36
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              0.00
  "9998 42 75075.31
                        92888.52\n",
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```

] }, {

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          ... \n",
   "9995
              0.00\n",
   "9996
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   "9997
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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",
         [-1.04143285, 0.85996499, -1.07636976]])"
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   },
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  "sc = StandardScaler()\n",
  x_scaled1 = sc.fit_transform(x)\n",
  "x scaled1"
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  "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,
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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",
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   },
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        [0.29351742, 0.30292727, -0.4235611],\n",
        ...,\n",
        [0.10281024, 1.46672809, 1.17045451],\n",
        [2.86806437, 1.25761599, -0.50846777],\n",
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   "202
              0.00\n",
   "5625 143262.04\n",
          ... \n",
   "9225 120074.97\n",
   "4859 114440.24\n",
   "3264 161274.05\n",
```

```
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   "5906 112079.58\n",
   "2343 163034.82\n",
         ... \n",
   "4004
              0.00\n",
   "7375 80926.02\n",
   "9307 168001.34\n",
   "8394 154953.94\n",
   "5233 88826.07\n",
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