MACHINE lEARNING TECHNIQUES

GROUP 04

AANCHAL SRIVASTAVA - B001

ANMOL SETHI - B008

PRAGYA SAJWAN - B033

SHIVANI JOGI - B040

SWARNA DUBEY -B043

YASH BANSAL -B050

Logistic Regression for Churn Prediction Dataset

Sourcing the data

```
import numpy as np
import pandas as pd
import matplotlib.pyplot as plt
import seaborn as sns

# Data set

churn=pd.read_csv('churn_prediction1.csv')

churn
```

	customer_id	vintage	age	gender	dependents	occupation	\
0	1	3135	66	Male	0.0	self_employed	
1	2	310	35	Male	0.0	self_employed	
2	4	2356	31	Male	0.0	salaried	
3	5	478	90	NaN	NaN	self_employed	
4	6	2531	42	Male	2.0	self_employed	
...	...	...	...	...	...	...	
1295	1380	766	10	Female	0.0	student	
1296	1381	1314	49	Female	0.0	self_employed	
1297	1382	2993	59	Male	4.0	salaried	
1298	1383	1766	13	Male	0.0	student	
1299	1384	7306	77	Female	0.0	self_employed	

	city	customer_nw_category	branch_code	\
0	Chicago	2	755	
1	NaN	2	3214	
2	Chicago	2	41	

```
3            Revere                    2        582
4         Arlington                    3        388
...             ...                  ...        ...
1295    Los Angeles                    2       2497
1296            NaN                    3       1349
1297   Philadelphia                    3        411
1298   Philadelphia                    1        542
1299   Philadelphia                    1        240

      days_since_last_transaction  ...  previous_month_end_balance  \
0                           224.0  ...                     1458.71
1                            60.0  ...                     8704.66
2                             NaN  ...                     5815.29
3                           147.0  ...                     2291.91
4                            58.0  ...                     1401.72
...                           ...  ...                         ...
1295                         27.0  ...                      119.03
1296                         97.0  ...                    15383.49
1297                          0.0  ...                     4116.26
1298                        339.0  ...                     4545.45
1299                         62.0  ...                    15014.05

      average_monthly_balance_prevQ  average_monthly_balance_prevQ2  \
0                          1458.71                          1449.07
1                          7799.26                         12419.41
2                          4910.17                          2815.94
3                          2084.54                          1006.54
4                          1643.31                          1871.12
...                            ...                             ...
1295                       2419.19                           118.29
1296                      16546.57                          7883.34
1297                       3775.87                          3463.84
1298                       4512.45                          4272.54
1299                      13910.17                         23436.02

      current_month_credit  previous_month_credit  current_month_debit
\
0                     0.20                   0.20                 0.20

1                     0.56                   0.56              5486.27

2                     0.61                   0.61              6046.73

3                     0.47                   0.47                 0.47

4                     0.33                 714.61               588.62

...                    ...                    ...                  ...
```

1295	7630.32	0.21	963.42
1296	0.54	0.54	1725.80
1297	1321.96	773.34	142.89
1298	0.23	0.23	0.23
1299	0.34	0.34	180.13

	previous_month_debit	current_month_balance	previous_month_balance \
0	0.20	1458.71	1458.71
1	100.56	6496.78	8787.61
2	259.23	5006.28	5070.14
3	2143.33	2291.91	1669.79
4	1538.06	1157.15	1677.16
...	...	...	...
1295	0.21	7019.52	119.03
1296	2502.37	14993.75	16766.38
1297	407.17	3991.89	3690.78
1298	0.23	4582.40	4513.19
1299	73.78	14890.06	14461.60

	churn
0	0
1	0
2	0
3	1
4	1
...	...
1295	1
1296	0
1297	0
1298	0
1299	0

```
[1300 rows x 21 columns]

churn.info()

<class 'pandas.core.frame.DataFrame'>
RangeIndex: 1300 entries, 0 to 1299
Data columns (total 21 columns):
 #   Column                         Non-Null Count  Dtype
---  ------                         --------------  -----
 0   customer_id                    1300 non-null   int64
 1   vintage                        1300 non-null   int64
 2   age                            1300 non-null   int64
 3   gender                         1275 non-null   object
 4   dependents                     1189 non-null   float64
 5   occupation                     1293 non-null   object
 6   city                           1258 non-null   object
 7   customer_nw_category           1300 non-null   int64
 8   branch_code                    1300 non-null   int64
 9   days_since_last_transaction    1149 non-null   float64
 10  current_balance                1300 non-null   float64
 11  previous_month_end_balance     1300 non-null   float64
 12  average_monthly_balance_prevQ  1300 non-null   float64
 13  average_monthly_balance_prevQ2 1300 non-null   float64
 14  current_month_credit           1300 non-null   float64
 15  previous_month_credit          1300 non-null   float64
 16  current_month_debit            1300 non-null   float64
 17  previous_month_debit           1300 non-null   float64
 18  current_month_balance          1300 non-null   float64
 19  previous_month_balance         1300 non-null   float64
 20  churn                          1300 non-null   int64
dtypes: float64(12), int64(6), object(3)
memory usage: 213.4+ KB

churn.isnull().sum()

customer_id                        0
vintage                            0
age                                0
gender                            25
dependents                       111
occupation                         7
city                              42
customer_nw_category               0
branch_code                        0
days_since_last_transaction      151
current_balance                    0
previous_month_end_balance         0
average_monthly_balance_prevQ      0
average_monthly_balance_prevQ2     0
current_month_credit               0
```

```
previous_month_credit          0
current_month_debit            0
previous_month_debit           0
current_month_balance          0
previous_month_balance         0
churn                          0
dtype: int64
```

`churn.dropna(inplace=True)`

`churn.isnull().sum()`

```
customer_id                    0
vintage                        0
age                            0
gender                         0
dependents                     0
occupation                     0
city                           0
customer_nw_category           0
branch_code                    0
days_since_last_transaction    0
current_balance                0
previous_month_end_balance     0
average_monthly_balance_prevQ  0
average_monthly_balance_prevQ2 0
current_month_credit           0
previous_month_credit          0
current_month_debit            0
previous_month_debit           0
current_month_balance          0
previous_month_balance         0
churn                          0
dtype: int64
```

Preprocessing of the data
```
# Target
```

`y = churn['churn']`

`type(churn)`

`pandas.core.frame.DataFrame`

`y.unique()`

`array([0, 1], dtype=int64)`

```
# Only two classes- binary classification.
```

```python
# Features
```

```python
X=churn.drop(['churn'],axis=1)
```

```python
X.shape
```

```
(1001, 20)
```

```python
X.columns
```

```
Index(['customer_id', 'vintage', 'age', 'gender', 'dependents',
'occupation',
       'city', 'customer_nw_category', 'branch_code',
       'days_since_last_transaction', 'current_balance',
       'previous_month_end_balance', 'average_monthly_balance_prevQ',
       'average_monthly_balance_prevQ2', 'current_month_credit',
       'previous_month_credit', 'current_month_debit',
'previous_month_debit',
       'current_month_balance', 'previous_month_balance'],
      dtype='object')
```

```python
category_cols=['customer_id', 'vintage', 'age', 'gender',
'dependents', 'occupation',
       'city', 'customer_nw_category', 'branch_code',
       'days_since_last_transaction', 'current_balance',
       'previous_month_end_balance', 'average_monthly_balance_prevQ',
       'average_monthly_balance_prevQ2', 'current_month_credit',
       'previous_month_credit', 'current_month_debit',
'previous_month_debit',
       'current_month_balance', 'previous_month_balance']
```

```python
len(category_cols)
```

```
20
```

```python
# Converting categorical features to numeric
```

```python
X_1 = churn.drop(['churn'],axis=1)
```

```python
X_1.shape
```

```
(1001, 20)
```

```python
# Adding constant
```

```python
import statsmodels.api as sm
X_1=sm.add_constant(X_1)
X_1.shape
```

```
(1001, 21)
```

```
X_1.iloc[0:10,0:20]
```

```
     const  customer_id  vintage  age  gender  dependents
occupation  \
0      1.0            1     3135   66    Male         0.0
self_employed
4      1.0            6     2531   42    Male         2.0
self_employed
5      1.0            7      263   42  Female         0.0
self_employed
6      1.0            8     5922   72    Male         0.0
retired
7      1.0            9     1145   46    Male         0.0
self_employed
8      1.0           10     2132   31    Male         0.0
salaried
9      1.0           11     3379   40    Male         3.0
self_employed
10     1.0           12      661   68    Male         0.0
retired
11     1.0           13     7108   32    Male         0.0
salaried
12     1.0           14     2438   73    Male         0.0
retired
```

```
             city  customer_nw_category  branch_code  \
0         Chicago                     2          755
4       Arlington                     3          388
5       Cambridge                     2         1666
6          Revere                     1            1
7          Arvada                     2          317
8       Cambridge                     2         4110
9        Columbus                     2           38
10        Detroit                     3          709
11    Morristown                     1           89
12  New York City                     3          409
```

```
    days_since_last_transaction  current_balance
previous_month_end_balance  \
0                         224.0          1458.71
1458.71
4                          58.0           927.72
1401.72
5                          60.0         15202.20
16059.34
6                          98.0          7006.93
7714.19
7                         172.0         10096.58
8519.53
8                          19.0          1355.86
```

```
1355.86
9                              0.0        4957.95
4244.38
10                             5.0        1928.76
1571.47
11                            20.0        6886.40
8372.64
12                            47.0         554.38
5728.66

    average_monthly_balance_prevQ  average_monthly_balance_prevQ2  \
0                         1458.71                         1449.07
4                         1643.31                         1871.12
5                        15211.29                        13798.82
6                         7859.74                        11232.37
7                         6511.82                        16314.17
8                         1702.44                         1126.13
9                         2168.53                         1864.33
10                        1722.60                          747.66
11                        9149.45                        21007.52
12                        1794.39                          137.25

    current_month_credit  previous_month_credit
current_month_debit  \
0                   0.20                   0.20                   0.20

4                   0.33                 714.61                 588.62

5                   0.36                   0.36                 857.50

6                   0.64                   0.64                1299.64

7                   0.27                   0.27                 443.13

8                 714.51                 121.09                 714.51

9                6912.29                4206.13                1887.30

10                443.40                   0.54                   0.54

11               7564.53                4550.24                9907.91

12                  0.33                 500.33                5098.90

    previous_month_debit  current_month_balance
0                   0.20                1458.71
4                1538.06                1157.15
5                 286.07               15719.44
```

```
6                    439.26              7076.06
7                   5688.44              8563.84
8                    359.44              1183.45
9                   1348.85              1823.16
10                   208.79              1606.54
11                  5161.96              8532.97
12                   508.53              2541.22
```

X_1.iloc[0:10,20:40]

```
    previous_month_balance
0                   1458.71
4                   1677.16
5                  15349.75
6                   7755.98
7                   5317.04
8                   1857.42
9                   2416.69
10                  1800.15
11                  8072.33
12                  2612.60
```

#X_1=X_1.drop(['gender'],axis=1)
X_1=X_1.drop(['city'],axis=1)
X_1=X_1.drop(['occupation'],axis=1)

Splitting to train and test
from sklearn.model_selection import train_test_split

X_train_1,X_test_1,y_train_1,y_test_1=train_test_split(
    X_1,y,test_size=0.2,random_state=10)

X_train_1.shape,X_test_1.shape,y_train_1.shape,y_test_1.shape

((800, 18), (201, 18), (800,), (201,))

type(X_train_1)

pandas.core.frame.DataFrame

Building the model
logR_1=sm.Logit(y_train_1,X_train_1)

# Fit the model
logR_1=logR_1.fit()

Optimization terminated successfully.
        Current function value: 0.424048
        Iterations 8
```

# Diagnosing the model

logR_1.summary2()

```
<class 'statsmodels.iolib.summary2.Summary'>
"""
                          Results: Logit
========================================================================
========
Model:               Logit               Pseudo R-squared:
0.153
Dependent Variable:  churn               AIC:
714.4770
Date:                2022-12-10 22:49    BIC:
798.8000
No. Observations:    800                 Log-Likelihood:         -
339.24
Df Model:            17                  LL-Null:                -
400.32
Df Residuals:        782                 LLR p-value:
5.9544e-18
Converged:           1.0000              Scale:
1.0000
No. Iterations:      8.0000


------------------------------------------------------------------------
--------
                             Coef.  Std.Err.    z     P>|z|   [0.025
0.975]
------------------------------------------------------------------------
--------
const                       -0.4061   0.5385 -0.7541 0.4508 -1.4616
0.6494
customer_id                 -0.0002   0.0002 -0.6863 0.4925 -0.0006
0.0003
vintage                     -0.0001   0.0001 -1.8297 0.0673 -0.0003
0.0000
age                         -0.0011   0.0062 -0.1845 0.8536 -0.0134
0.0111
dependents                  -0.0133   0.1051 -0.1261 0.8997 -0.2192
0.1927
customer_nw_category        -0.0845   0.1551 -0.5445 0.5861 -0.3885
0.2196
branch_code                  0.0001   0.0001  0.4646 0.6422 -0.0002
0.0003
days_since_last_transaction -0.0018   0.0014 -1.3503 0.1769 -0.0045
0.0008
current_balance             -0.0004   0.0001 -5.2830 0.0000 -0.0005
-0.0002
previous_month_end_balance   0.0000   0.0000  0.9432 0.3456 -0.0000
0.0001
```

```
average_monthly_balance_prevQ    0.0002    0.0001  2.6857 0.0072   0.0001
0.0004
average_monthly_balance_prevQ2   0.0000    0.0000   0.3723 0.7097 -0.0000
0.0001
current_month_credit            -0.0000    0.0000 -0.9000 0.3681 -0.0000
0.0000
previous_month_credit            0.0000    0.0000   1.8072 0.0707 -0.0000
0.0001
current_month_debit              0.0000    0.0000   0.0862 0.9313 -0.0000
0.0000
previous_month_debit            -0.0000    0.0000 -0.3263 0.7442 -0.0001
0.0000
current_month_balance            0.0000    0.0001   0.4992 0.6176 -0.0001
0.0002
previous_month_balance          -0.0000    0.0001 -0.6405 0.5218 -0.0002
0.0001
==============================================================================
========

"""


# Features with p<0.05


imp_features_1= ['average_monthly_balance_prevQ','current_balance']

# Update the feature set

X_2=X_1[imp_features_1]

X_2

      average_monthly_balance_prevQ   current_balance
0                          1458.71          1458.71
4                          1643.31           927.72
5                         15211.29         15202.20
6                          7859.74          7006.93
7                          6511.82         10096.58
...                            ...              ...
1294                      11546.06         14734.45
1295                       2419.19          6785.93
1297                       3775.87          5209.62
1298                       4512.45          4616.88
1299                      13910.17         14834.26

[1001 rows x 2 columns]
```

Continue with revise feature set

```python
X_train_2,X_test_2,y_train_2,y_test_2=train_test_split(
    X_2,y,test_size=0.2,random_state=10)

X_train_2.shape,X_test_2.shape,y_train_2.shape,y_test_2.shape
```

```
((800, 2), (201, 2), (800,), (201,))
```

```python
# Building the model
logR_2= sm.Logit(y_train_2,X_train_2)
logR_2=logR_2.fit()
logR_2.summary2()
```

```
Optimization terminated successfully.
        Current function value: 0.479419
        Iterations 7

<class 'statsmodels.iolib.summary2.Summary'>
"""
                        Results: Logit
=====================================================================
========
Model:                 Logit            Pseudo R-squared:
0.042
Dependent Variable:    churn            AIC:
771.0709
Date:                  2022-12-10 22:52 BIC:
780.4401
No. Observations:      800              Log-Likelihood:       -
383.54
Df Model:              1                LL-Null:              -
400.32
Df Residuals:          798              LLR p-value:
6.8640e-09
Converged:             1.0000           Scale:
1.0000
No. Iterations:        7.0000


---------------------------------------------------------------------
--------
                                Coef.  Std.Err.   z     P>|z|   [0.025
0.975]
---------------------------------------------------------------------
--------
average_monthly_balance_prevQ  0.0002   0.0000   5.0051 0.0000  0.0001
0.0002
current_balance               -0.0005   0.0000 -10.0018 0.0000 -0.0006
-0.0004
=====================================================================
========
```

```python
"""

# Variance Inflation Factor > 4

from statsmodels.stats.outliers_influence import
variance_inflation_factor

def var_inf_factor(data):
    vif=pd.DataFrame()
    vif['Feature']=data.columns
    vif['VIF_Value']=[variance_inflation_factor(data.values,i)
                        for i in range(data.shape[1])]
    print(vif)

# Calling the fn

var_inf_factor(X_2)

                      Feature  VIF_Value
0  average_monthly_balance_prevQ   4.989556
1               current_balance   4.989556

plt.figure(figsize=(15,15))
sns.heatmap(X_2.corr(),annot=True);
```
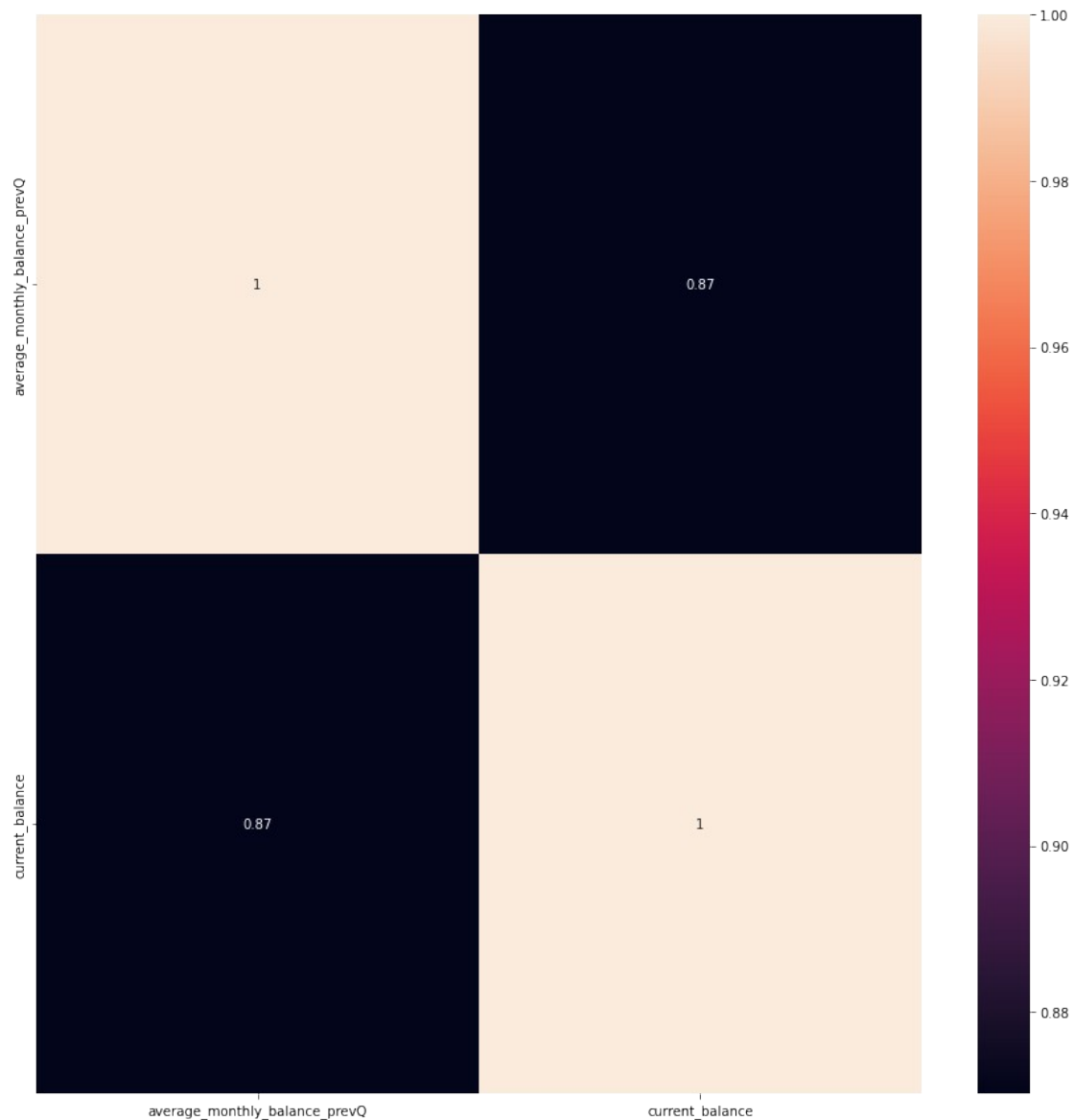
```
# Singnificant features

imp_features_2=['average_monthly_balance_prevQ','current_balance']

X_3=X_2[imp_features_2]

X_3
```

```
     average_monthly_balance_prevQ   current_balance
0                         1458.71           1458.71
4                         1643.31            927.72
5                        15211.29          15202.20
6                         7859.74           7006.93
7                         6511.82          10096.58
...                           ...               ...
1294                     11546.06          14734.45
```

```
1295                          2419.19              6785.93
1297                          3775.87              5209.62
1298                          4512.45              4616.88
1299                         13910.17             14834.26
```

[1001 rows x 2 columns]

Continue with revised feature set

```python
X_train_3,X_test_3,y_train_3,y_test_3=train_test_split(
     X_3,y,test_size=0.2,random_state=10)
```

```python
X_train_3.shape,X_test_3.shape,y_train_3.shape,y_test_3.shape
```

((800, 2), (201, 2), (800,), (201,))

```python
# Building the model
logR_3=sm.Logit(y_train_3,X_train_3)
logR_3=logR_3.fit()
logR_3.summary2()
```

```
Optimization terminated successfully.
        Current function value: 0.479419
        Iterations 7
```

```
<class 'statsmodels.iolib.summary2.Summary'>
"""
                             Results: Logit
========================================================================
========
Model:                 Logit              Pseudo R-squared:
0.042
Dependent Variable:    churn              AIC:
771.0709
Date:                  2022-12-10 22:53   BIC:
780.4401
No. Observations:      800                Log-Likelihood:        -
383.54
Df Model:              1                  LL-Null:               -
400.32
Df Residuals:          798                LLR p-value:
6.8640e-09
Converged:             1.0000             Scale:
1.0000
No. Iterations:        7.0000


------------------------------------------------------------------------
--------
                         Coef.  Std.Err.    z     P>|z|    [0.025
0.975]
------------------------------------------------------------------------
--------
```

```
average_monthly_balance_prevQ  0.0002   0.0000   5.0051 0.0000  0.0001
0.0002
current_balance                       -0.0005   0.0000 -10.0018 0.0000 -0.0006
-0.0004
================================================================
========

"""
```

Model building is complete

```
logR_3.params
```

```
average_monthly_balance_prevQ    0.000172
current_balance                 -0.000484
dtype: float64
```

The final LR model:

Z =Duration of Credit (month) * -0.031934 +

Age (years) * 0.044396

```
f(Z) = e^ Z / (1+ e^ Z)
```

Prediction using the model
```
y_pred=logR_3.predict(X_test_3)
y_pred
```

```
1099     0.016492
1123     0.127642
1264     0.001696
224      0.337550
1228     0.362362
          ...
247      0.239615
510      0.379636
1144     0.400206
1024     0.069019
243      0.004455
Length: 201, dtype: float64
```

```
y_test_3
```

```
1099     0
1123     0
1264     0
224      1
1228     0
       ..
247      0
```

```
510      0
1144     0
1024     0
243      0
Name: churn, Length: 201, dtype: int64
```

```python
# A DF

pred_df=pd.DataFrame({'Actual Class':y_test_3,
                      'Predicted Prob.':y_pred})

pred_df
```

```
      Actual Class  Predicted Prob.
1099             0         0.016492
1123             0         0.127642
1264             0         0.001696
224              1         0.337550
1228             0         0.362362
...            ...              ...
247              0         0.239615
510              0         0.379636
1144             0         0.400206
1024             0         0.069019
243              0         0.004455

[201 rows x 2 columns]
```

```python
# Adding a col to the DF

pred_df['Predicted Class']=pred_df['Predicted Prob.'].map(
    lambda x: 1 if x >0.5 else 0 )

pred_df
```

```
      Actual Class  Predicted Prob.  Predicted Class
1099             0         0.016492                0
1123             0         0.127642                0
1264             0         0.001696                0
224              1         0.337550                0
1228             0         0.362362                0
...            ...              ...              ...
247              0         0.239615                0
510              0         0.379636                0
1144             0         0.400206                0
1024             0         0.069019                0
243              0         0.004455                0

[201 rows x 3 columns]
```

Performance Measures

Confusion Matrix

```
from sklearn.metrics import confusion_matrix

cm=confusion_matrix(pred_df['Actual Class'],
                    pred_df['Predicted Class'])

print('The Confusion Matrix:\n ',cm)
sns.heatmap(cm,annot=True);
```

```
The Confusion Matrix:
  [[154  10]
 [ 19  18]]
```
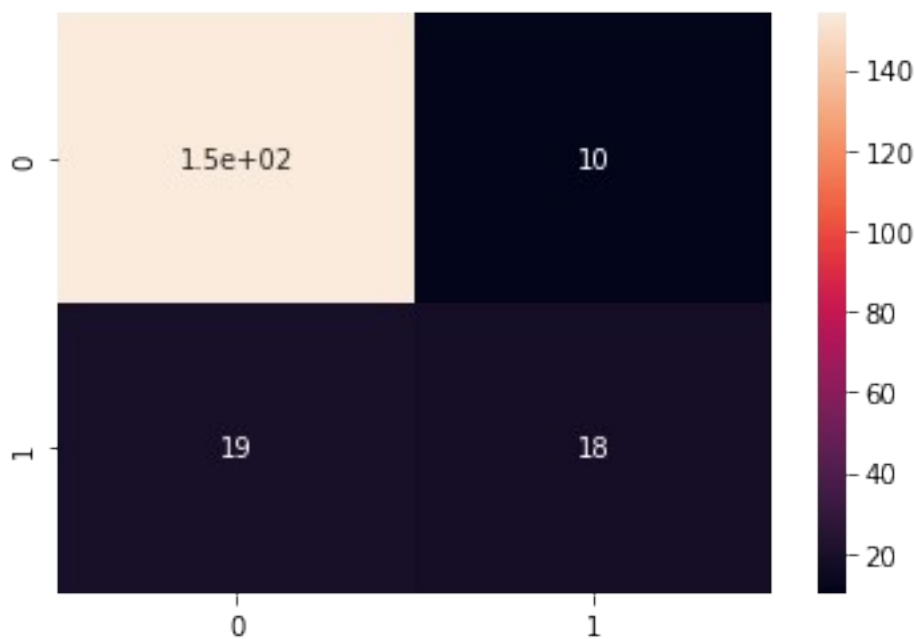

TP=154
FN=19
FP= 10
TN=18

Classification Report

```
from sklearn.metrics import classification_report

report=classification_report(pred_df['Actual Class'],
                    pred_df['Predicted Class'])
print(' The classification report:\n',report)
```

```
 The classification report:
               precision    recall  f1-score    support
```

	precision	recall	f1-score	support
0	0.89	0.94	0.91	164
1	0.64	0.49	0.55	37
accuracy			0.86	201
macro avg	0.77	0.71	0.73	201
weighted avg	0.84	0.86	0.85	201

Plotting the distribution of predicted probs

```
# Distribution of pred prob corresponding class=0
```

```
sns.distplot(pred_df[pred_df['Actual Class']==0]['Predicted Prob.']);
```

```
C:\Users\hp\anaconda3\lib\site-packages\seaborn\distributions.py:2619:
FutureWarning: `distplot` is a deprecated function and will be removed
in a future version. Please adapt your code to use either `displot` (a
figure-level function with similar flexibility) or `histplot` (an
axes-level function for histograms).
  warnings.warn(msg, FutureWarning)
```
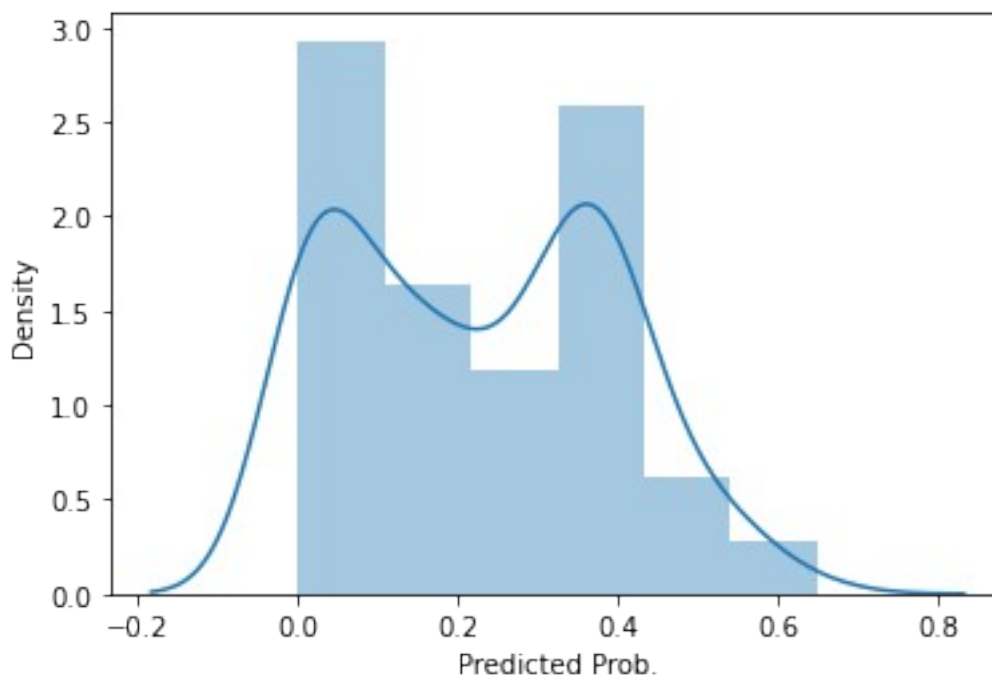


```
# Distribution of pred prob corresponding class=1
```

```
sns.distplot(pred_df[pred_df['Actual Class']==1]['Predicted Prob.']);
```

```
C:\Users\hp\anaconda3\lib\site-packages\seaborn\distributions.py:2619:
FutureWarning: `distplot` is a deprecated function and will be removed
in a future version. Please adapt your code to use either `displot` (a
figure-level function with similar flexibility) or `histplot` (an
```
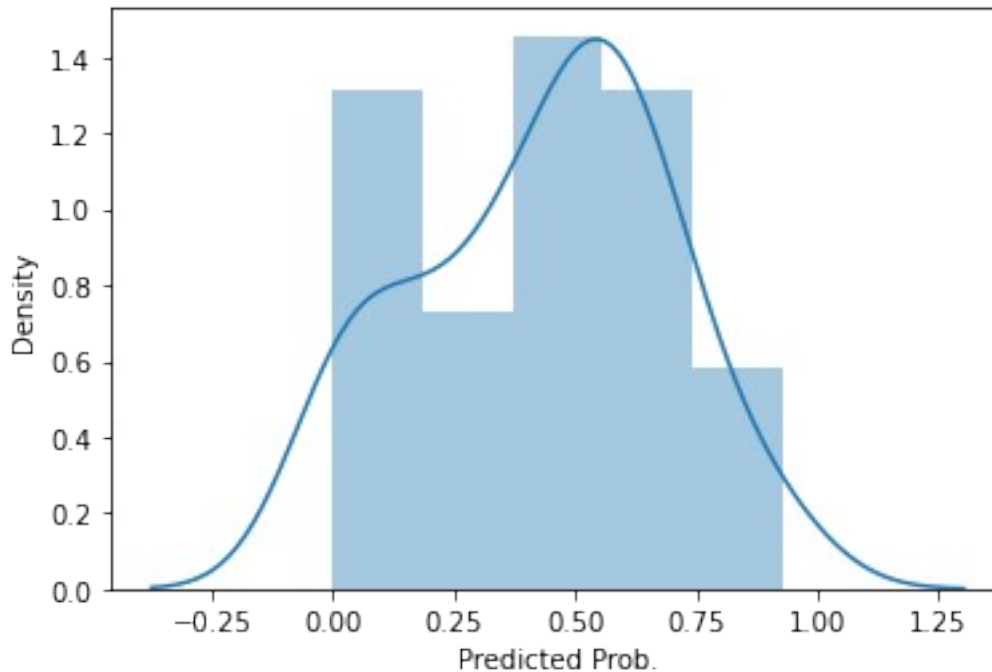
Distribution of pred prob corresponding class=0,1

```
sns.distplot(pred_df[pred_df['Actual Class']==0]['Predicted Prob.'])
sns.distplot(pred_df[pred_df['Actual Class']==1]['Predicted Prob.']);
```

ROC Curve

Receiver Operating Characteristics Curve

Plotted by taking:

FPR (Sensitivity) ===> X- axis

TPR(1- Specificity) ===> Y -axis

```
from sklearn.metrics import roc_curve

fpr,tpr,threshold=roc_curve(pred_df['Actual Class'],
                          pred_df['Predicted Prob.'])

plt.plot(fpr,tpr);
```
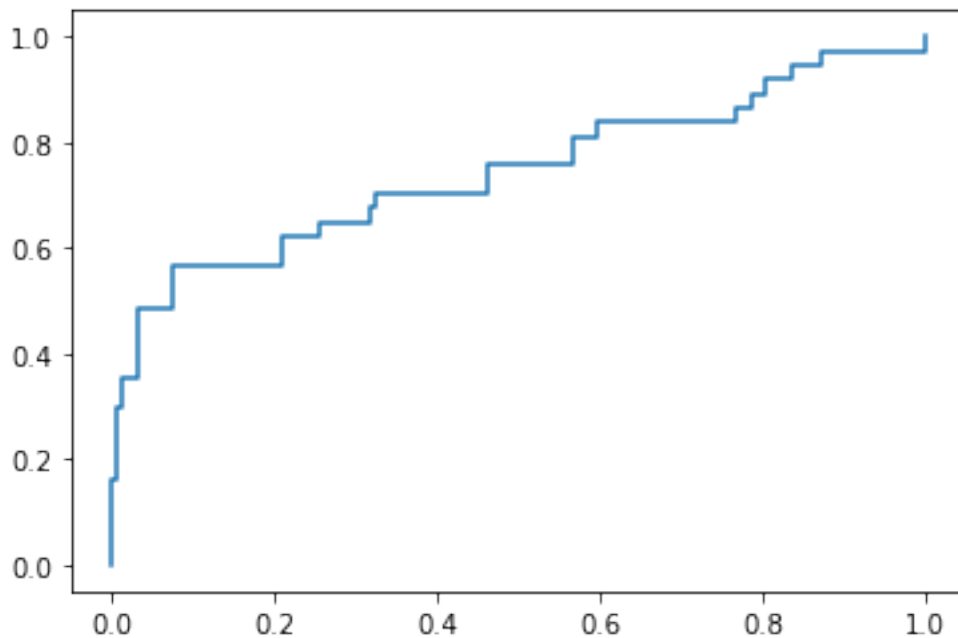
```
plt.plot(fpr,tpr)
plt.plot([0,1],[0,1],c='r')
plt.xlabel('False Positive Rate')
plt.ylabel('True Positive Rate')
plt.show();
```
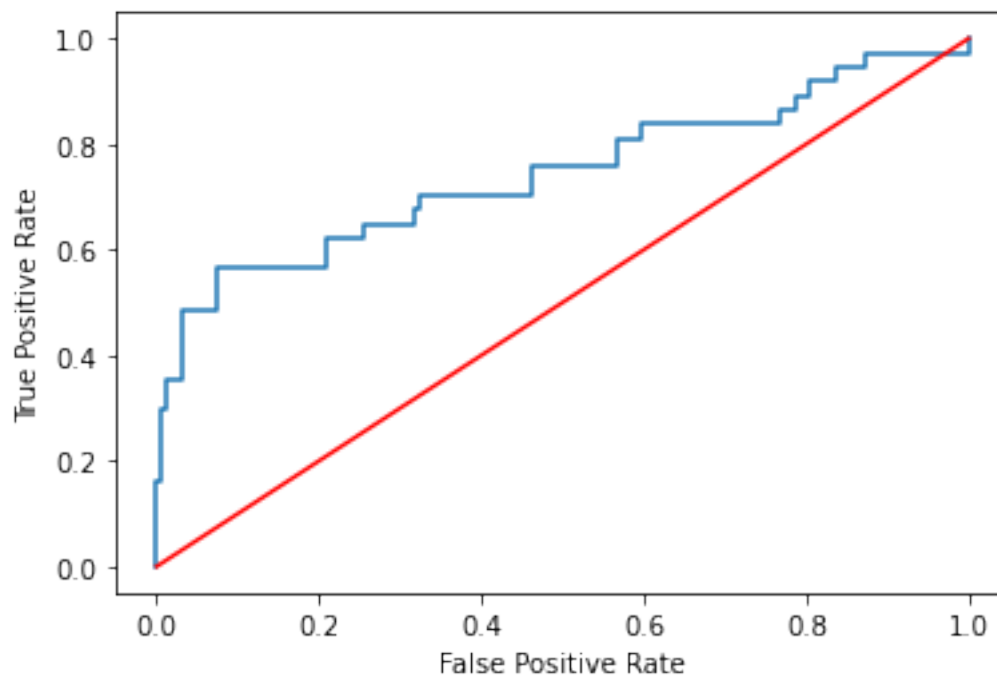

ROC-AUC- Score

```
from sklearn.metrics import roc_auc_score
```

```
score=roc_auc_score(pred_df['Actual Class'],
                    pred_df['Predicted Class'])

print(' The ROC-AUC-Score:',score)

 The ROC-AUC-Score: 0.7127554383651944
```

Finding the optimum classification cut-off

Many measures:

Youden's index: Max { Sensitivity + Specificity -1}

```
        : Max { Sensitivity - (1- Specificity) }

        : Max { FPR - TPR }, actual diff
```

```
# Create a new DF

fpr_tpr= pd.DataFrame({'FPR': fpr,
                       'TPR': tpr,
                       'Threshold': threshold})

fpr_tpr
```

```
          FPR        TPR        Threshold
0    0.000000   0.000000   1.927602e+00
1    0.000000   0.027027   9.276018e-01
2    0.000000   0.162162   6.999725e-01
3    0.006098   0.162162   6.493904e-01
4    0.006098   0.297297   5.853380e-01
5    0.012195   0.297297   5.785498e-01
6    0.012195   0.351351   5.727403e-01
7    0.030488   0.351351   5.593429e-01
8    0.030488   0.486486   5.174376e-01
9    0.073171   0.486486   4.831217e-01
10   0.073171   0.567568   4.585487e-01
11   0.207317   0.567568   3.864647e-01
12   0.207317   0.621622   3.852665e-01
13   0.256098   0.621622   3.697918e-01
14   0.256098   0.648649   3.674144e-01
15   0.317073   0.648649   3.405885e-01
16   0.317073   0.675676   3.392057e-01
17   0.323171   0.675676   3.385553e-01
18   0.323171   0.702703   3.375496e-01
19   0.463415   0.702703   2.571651e-01
20   0.463415   0.756757   2.469419e-01
21   0.567073   0.756757   1.848688e-01
22   0.567073   0.810811   1.771843e-01
23   0.597561   0.810811   1.575910e-01
24   0.597561   0.837838   1.550376e-01
```

```
25   0.768293   0.837838   5.896333e-02
26   0.768293   0.864865   4.777422e-02
27   0.786585   0.864865   3.983319e-02
28   0.786585   0.891892   3.760126e-02
29   0.804878   0.891892   3.535798e-02
30   0.804878   0.918919   3.220052e-02
31   0.835366   0.918919   2.454982e-02
32   0.835366   0.945946   2.329465e-02
33   0.871951   0.945946   1.104319e-02
34   0.871951   0.972973   8.962515e-03
35   1.000000   0.972973   1.108379e-06
36   1.000000   1.000000   1.150955e-09
```

 # Creating the col of Diff

```
fpr_tpr['Diff']= np.abs(fpr_tpr['FPR']- fpr_tpr['TPR'])
```

```
fpr_tpr
```

	FPR	TPR	Threshold	Diff
0	0.000000	0.000000	1.927602e+00	0.000000
1	0.000000	0.027027	9.276018e-01	0.027027
2	0.000000	0.162162	6.999725e-01	0.162162
3	0.006098	0.162162	6.493904e-01	0.156065
4	0.006098	0.297297	5.853380e-01	0.291200
5	0.012195	0.297297	5.785498e-01	0.285102
6	0.012195	0.351351	5.727403e-01	0.339156
7	0.030488	0.351351	5.593429e-01	0.320864
8	0.030488	0.486486	5.174376e-01	0.455999
9	0.073171	0.486486	4.831217e-01	0.413316
10	0.073171	0.567568	4.585487e-01	0.494397
11	0.207317	0.567568	3.864647e-01	0.360250
12	0.207317	0.621622	3.852665e-01	0.414305
13	0.256098	0.621622	3.697918e-01	0.365524
14	0.256098	0.648649	3.674144e-01	0.392551
15	0.317073	0.648649	3.405885e-01	0.331575
16	0.317073	0.675676	3.392057e-01	0.358603
17	0.323171	0.675676	3.385553e-01	0.352505
18	0.323171	0.702703	3.375496e-01	0.379532
19	0.463415	0.702703	2.571651e-01	0.239288
20	0.463415	0.756757	2.469419e-01	0.293342
21	0.567073	0.756757	1.848688e-01	0.189684
22	0.567073	0.810811	1.771843e-01	0.243738
23	0.597561	0.810811	1.575910e-01	0.213250
24	0.597561	0.837838	1.550376e-01	0.240277
25	0.768293	0.837838	5.896333e-02	0.069545
26	0.768293	0.864865	4.777422e-02	0.096572
27	0.786585	0.864865	3.983319e-02	0.078279
28	0.786585	0.891892	3.760126e-02	0.105307
29	0.804878	0.891892	3.535798e-02	0.087014

```
30   0.804878   0.918919   3.220052e-02   0.114041
31   0.835366   0.918919   2.454982e-02   0.083553
32   0.835366   0.945946   2.329465e-02   0.110580
33   0.871951   0.945946   1.104319e-02   0.073995
34   0.871951   0.972973   8.962515e-03   0.101022
35   1.000000   0.972973   1.108379e-06   0.027027
36   1.000000   1.000000   1.150955e-09   0.000000
```

Sorting

```
fpr_tpr.sort_values('Diff',ascending=False)
```

```
         FPR        TPR     Threshold        Diff
10   0.073171   0.567568   4.585487e-01   0.494397
8    0.030488   0.486486   5.174376e-01   0.455999
12   0.207317   0.621622   3.852665e-01   0.414305
9    0.073171   0.486486   4.831217e-01   0.413316
14   0.256098   0.648649   3.674144e-01   0.392551
18   0.323171   0.702703   3.375496e-01   0.379532
13   0.256098   0.621622   3.697918e-01   0.365524
11   0.207317   0.567568   3.864647e-01   0.360250
16   0.317073   0.675676   3.392057e-01   0.358603
17   0.323171   0.675676   3.385553e-01   0.352505
6    0.012195   0.351351   5.727403e-01   0.339156
15   0.317073   0.648649   3.405885e-01   0.331575
7    0.030488   0.351351   5.593429e-01   0.320864
20   0.463415   0.756757   2.469419e-01   0.293342
4    0.006098   0.297297   5.853380e-01   0.291200
5    0.012195   0.297297   5.785498e-01   0.285102
22   0.567073   0.810811   1.771843e-01   0.243738
24   0.597561   0.837838   1.550376e-01   0.240277
19   0.463415   0.702703   2.571651e-01   0.239288
23   0.597561   0.810811   1.575910e-01   0.213250
21   0.567073   0.756757   1.848688e-01   0.189684
2    0.000000   0.162162   6.999725e-01   0.162162
3    0.006098   0.162162   6.493904e-01   0.156065
30   0.804878   0.918919   3.220052e-02   0.114041
32   0.835366   0.945946   2.329465e-02   0.110580
28   0.786585   0.891892   3.760126e-02   0.105307
34   0.871951   0.972973   8.962515e-03   0.101022
26   0.768293   0.864865   4.777422e-02   0.096572
29   0.804878   0.891892   3.535798e-02   0.087014
31   0.835366   0.918919   2.454982e-02   0.083553
27   0.786585   0.864865   3.983319e-02   0.078279
33   0.871951   0.945946   1.104319e-02   0.073995
25   0.768293   0.837838   5.896333e-02   0.069545
1    0.000000   0.027027   9.276018e-01   0.027027
35   1.000000   0.972973   1.108379e-06   0.027027
0    0.000000   0.000000   1.927602e+00   0.000000
36   1.000000   1.000000   1.150955e-09   0.000000
```

```python
# Use the new cut-off

pred_df['New Predicted Class']=pred_df['Predicted Prob.'].map(
    lambda x: 1 if x >0.526841 else 0 )

pred_df
```

	Actual Class	Predicted Prob.	Predicted Class	New Predicted Class
1099	0	0.016492	0	0
1123	0	0.127642	0	0
1264	0	0.001696	0	0
224	1	0.337550	0	0
1228	0	0.362362	0	0
...	...	...	...	...
247	0	0.239615	0	0
510	0	0.379636	0	0
1144	0	0.400206	0	0
1024	0	0.069019	0	0
243	0	0.004455	0	0

[201 rows x 4 columns]

```python
# New Confusion matrix

new_cm=confusion_matrix(pred_df['Actual Class'],
                        pred_df['New Predicted Class'])

print(' The new CM:\n', new_cm)
#cm=confusion_matrix(y_test,y_pred)

sns.heatmap(new_cm,annot=True);
```

```
 The new CM:
 [[159    5]
 [ 20   17]]
```
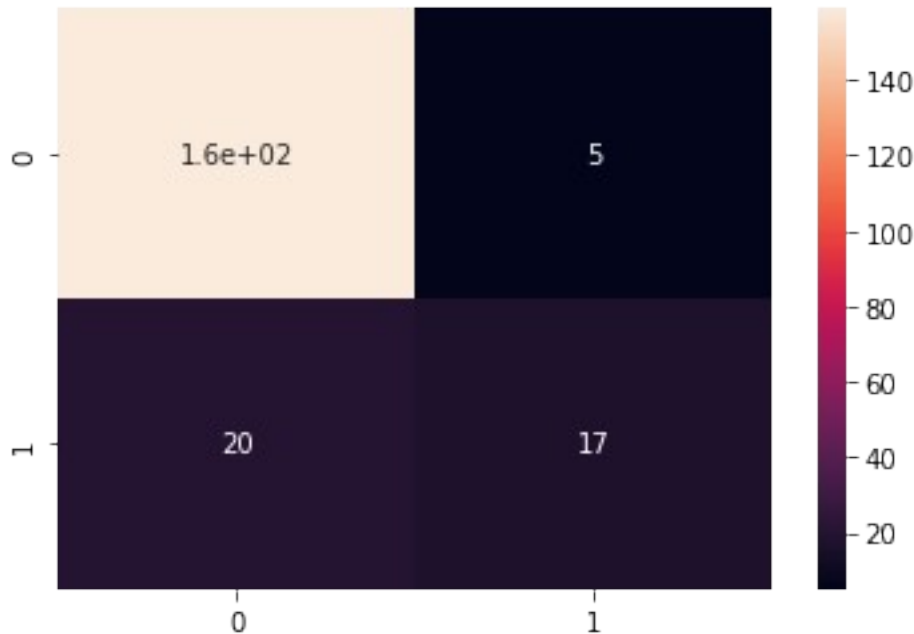
```
new_score=roc_auc_score(pred_df['Actual Class'],
                        pred_df['New Predicted Class'])
print(' The new score:', new_score)
```

 The new score: 0.7144858272907053

Decision Tree Classifier

```
churn.keys()
```

```
Index(['customer_id', 'vintage', 'age', 'gender', 'dependents',
'occupation',
       'city', 'customer_nw_category', 'branch_code',
       'days_since_last_transaction', 'current_balance',
       'previous_month_end_balance', 'average_monthly_balance_prevQ',
       'average_monthly_balance_prevQ2', 'current_month_credit',
       'previous_month_credit', 'current_month_debit',
'previous_month_debit',
       'current_month_balance', 'previous_month_balance', 'churn'],
      dtype='object')
```

```
y= churn['churn']
y
type(y)
```

```
pandas.core.series.Series
```

```
target = pd.Series(churn['churn'])
```

```
# providing dtype
print(target.to_numpy(dtype ='float32'))
```

```python
#Dict =dict ('Data':churn['age','dependents'],'Target':churn['churn'])
```

```
[0. 1. 0. ... 0. 0. 0.]
```

```python
#target =y
target = np.vstack((churn['churn'].head(150))).T
data = np.vstack((churn['current_balance'].head(150),
churn['days_since_last_transaction'].head(150),churn['vintage'].head(1
50),churn['current_month_credit'].head(150))).T
```

```python
target
```

```
array([[0, 1, 0, 0, 0, 0, 0, 0, 0, 1, 0, 1, 1, 0, 0, 1, 1, 0, 1, 0, 1,
0,
        0, 0, 1, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 1, 1, 0, 0, 0, 0, 1, 0,
0,
        0, 0, 0, 0, 0, 0, 0, 0, 0, 1, 0, 0, 0, 0, 0, 0, 0, 0, 0, 1, 0,
0,
        0, 0, 0, 0, 0, 0, 0, 1, 1, 0, 0, 0, 1, 1, 0, 0, 0, 1, 0, 0, 0,
0,
        0, 1, 0, 0, 1, 1, 0, 0, 1, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 1,
1,
        0, 0, 0, 0, 1, 0, 0, 0, 0, 0, 0, 1, 0, 0, 0, 1, 0, 0, 0, 0, 0,
0,
        0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 1, 0, 1, 0, 0, 1, 0, 0]])
```

```python
target =target[0]
```

```python
target
```

```
array([0, 1, 0, 0, 0, 0, 0, 0, 0, 1, 0, 1, 1, 0, 0, 1, 1, 0, 1, 0, 1,
0,
       0, 0, 1, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 1, 1, 0, 0, 0, 0, 1, 0,
0,
       0, 0, 0, 0, 0, 0, 0, 0, 0, 1, 0, 0, 0, 0, 0, 0, 0, 0, 0, 1, 0,
0,
       0, 0, 0, 0, 0, 0, 0, 1, 1, 0, 0, 0, 1, 1, 0, 0, 0, 1, 0, 0, 0,
0,
       0, 1, 0, 0, 1, 1, 0, 0, 1, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 1,
1,
       0, 0, 0, 0, 1, 0, 0, 0, 0, 0, 0, 1, 0, 0, 0, 1, 0, 0, 0, 0, 0,
0,
       0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 1, 0, 1, 0, 0, 1, 0, 0])
```

```python
len(target)
```

```
150
```

```python
data
```

```
array([[1.4587100e+03, 2.2400000e+02, 3.1350000e+03, 2.0000000e-01],
       [9.2772000e+02, 5.8000000e+01, 2.5310000e+03, 3.3000000e-01],
       [1.5202200e+04, 6.0000000e+01, 2.6300000e+02, 3.6000000e-01],
       [7.0069300e+03, 9.8000000e+01, 5.9220000e+03, 6.4000000e-01],
       [1.0096580e+04, 1.7200000e+02, 1.1450000e+03, 2.7000000e-01],
       [1.3558600e+03, 1.9000000e+01, 2.1320000e+03, 7.1451000e+02],
       [4.9579500e+03, 0.0000000e+00, 3.3790000e+03, 6.9122900e+03],
       [1.9287600e+03, 5.0000000e+00, 6.6100000e+02, 4.4340000e+02],
       [6.8864000e+03, 2.0000000e+01, 7.1080000e+03, 7.5645300e+03],
       [5.5438000e+02, 4.7000000e+01, 2.4380000e+03, 3.3000000e-01],
       [4.5484800e+03, 3.0300000e+02, 5.7030000e+03, 6.1000000e-01],
       [5.4314200e+03, 5.2000000e+01, 2.3140000e+03, 6.6000000e-01],
       [1.4484900e+03, 0.0000000e+00, 2.7230000e+03, 1.9071000e+02],
       [5.2921300e+03, 3.0000000e+00, 6.1110000e+03, 3.9169100e+03],
       [3.5077100e+03, 6.9000000e+01, 5.8210000e+03, 5.6000000e-01],
       [3.0427000e+03, 3.1000000e+01, 3.5000000e+03, 3.0000000e-01],
       [2.1800000e+00, 2.3000000e+01, 5.7240000e+03, 7.9790000e+01],
       [6.8864000e+03, 2.0000000e+01, 7.1080000e+03, 7.5645300e+03],
       [5.5438000e+02, 4.7000000e+01, 2.4380000e+03, 3.3000000e-01],
       [4.5484800e+03, 3.0300000e+02, 5.7030000e+03, 6.1000000e-01],
       [2.5962100e+03, 4.7000000e+01, 7.5400000e+02, 6.0000000e-01],
       [2.0273430e+04, 2.0000000e+01, 2.6200000e+03, 7.8300000e+00],
       [7.1112900e+03, 9.0000000e+00, 1.3910000e+03, 1.4326000e+02],
       [6.4244600e+03, 9.0000000e+00, 4.1750000e+03, 6.3900000e+01],
       [9.7257000e+02, 2.7000000e+01, 6.0060000e+03, 1.8598440e+04],
       [1.0701320e+04, 3.6000000e+01, 2.9630000e+03, 1.6000000e-01],
       [7.6136100e+03, 1.2500000e+02, 2.6840000e+03, 1.9000000e-01],
       [2.2690000e+02, 5.0000000e+00, 5.8030000e+03, 3.7471690e+04],
       [1.4367100e+03, 7.7000000e+01, 5.5790000e+03, 4.4000000e-01],
       [5.5759500e+03, 1.0000000e+01, 2.3500000e+03, 3.5780000e+02],
       [3.2951700e+03, 9.7000000e+01, 4.7500000e+03, 4.3000000e-01],
       [1.3148580e+04, 3.0000000e+00, 6.8340000e+03, 4.2347000e+02],
       [7.6136100e+03, 1.2500000e+02, 2.6840000e+03, 1.9000000e-01],
       [2.2690000e+02, 5.0000000e+00, 5.8030000e+03, 3.7471690e+04],
       [5.7171300e+03, 1.6000000e+02, 9.3700000e+02, 1.0000000e-01],
       [3.8544400e+03, 1.4000000e+01, 3.4280000e+03, 1.4287600e+03],
       [3.5856200e+03, 7.0000000e+00, 1.7760000e+03, 3.2607100e+03],
       [4.4743800e+03, 9.5000000e+01, 2.7010000e+03, 5.1000000e-01],
       [1.4439500e+03, 1.7000000e+01, 1.9160000e+03, 3.2886000e+02],
       [2.1252860e+04, 3.0000000e+00, 2.2920000e+03, 7.8248000e+02],
       [8.9472000e+02, 2.0000000e+01, 4.8430000e+03, 4.8746000e+02],
       [9.1470000e+01, 0.0000000e+00, 7.3400000e+02, 9.5780000e+02],
       [3.3651600e+03, 7.0000000e+00, 2.6220000e+03, 1.4292700e+03],
       [3.3732100e+03, 1.1600000e+02, 4.9950000e+03, 5.4000000e-01],
       [4.0916600e+03, 7.6000000e+01, 1.0370000e+03, 2.0000000e-01],
       [1.2039770e+04, 1.1000000e+01, 4.8700000e+03, 3.4291000e+02],
       [6.0369000e+03, 1.8000000e+01, 7.0400000e+02, 9.4769000e+02],
       [1.5782100e+03, 2.8000000e+01, 5.0960000e+03, 4.1060000e+01],
       [1.0503000e+03, 2.0000000e+01, 5.5500000e+03, 1.4989900e+03],
       [5.0652900e+03, 2.5000000e+01, 2.7090000e+03, 6.5800000e+01],
```

```
[1.5942780e+04, 2.5000000e+01, 3.9520000e+03, 6.0496000e+02],
[7.1514600e+03, 1.7300000e+02, 1.0430000e+03, 4.0000000e-01],
[2.7970630e+04, 5.0000000e+00, 4.3400000e+02, 5.9708900e+03],
[4.3167000e+02, 4.6000000e+01, 7.6100000e+02, 3.7000000e-01],
[1.1902100e+04, 7.0000000e+00, 5.6210000e+03, 9.4907100e+03],
[2.6622100e+03, 2.5000000e+01, 1.3900000e+03, 1.4346000e+02],
[5.4686700e+04, 0.0000000e+00, 6.2440000e+03, 5.3551680e+04],
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[2.9599740e+04, 6.0000000e+00, 1.4490000e+03, 8.1428590e+04],
[1.7999400e+03, 1.3200000e+02, 4.3670000e+03, 2.9000000e-01],
[1.0309020e+04, 2.0900000e+02, 3.8240000e+03, 5.6000000e-01],
[4.9701300e+03, 5.3000000e+01, 1.5760000e+03, 5.4000000e-01],
[7.1543500e+03, 2.4000000e+01, 2.8000000e+03, 1.4974400e+03],
[1.4040000e+03, 2.4000000e+01, 1.2410000e+03, 2.5714400e+03],
[1.8985400e+03, 7.7000000e+01, 3.1460000e+03, 5.1000000e-01],
[1.7398100e+03, 9.5000000e+01, 4.9700000e+03, 1.0000000e-01],
[2.4626500e+03, 3.0000000e+00, 3.7360000e+03, 6.7700000e+02],
[2.6303600e+03, 7.0000000e+00, 2.7980000e+03, 2.8591000e+02],
[1.0725200e+04, 1.3500000e+02, 1.3890000e+03, 5.1000000e-01],
[6.6533000e+02, 1.8000000e+01, 2.1800000e+03, 7.5290000e+01],
[4.6176300e+03, 3.1000000e+01, 4.1150000e+03, 7.0000000e-01],
```

```
       [2.9470100e+03, 2.5000000e+01, 2.0080000e+03, 1.8576000e+02],
       [1.4334800e+03, 2.1000000e+01, 6.1130000e+03, 3.1336000e+03],
       [5.8233600e+03, 1.4900000e+02, 4.6130000e+03, 1.1000000e-01],
       [1.3871000e+02, 9.0000000e+00, 2.6830000e+03, 2.5092919e+05],
       [2.1915100e+03, 2.8600000e+02, 2.9820000e+03, 1.1000000e-01],
       [1.7569400e+03, 1.1000000e+01, 3.3940000e+03, 6.7164000e+02],
       [1.4332100e+03, 2.1000000e+01, 3.0050000e+03, 2.8574000e+03],
       [2.0768100e+03, 0.0000000e+00, 3.1430000e+03, 2.8706400e+03],
       [3.7312000e+03, 3.0000000e+00, 1.1400000e+03, 2.8630000e+02]])
```

```
target.shape, data.shape
```

```
((150,), (150, 4))
```

```
-----------------------------------------------------------------
-----
AttributeError                                Traceback (most recent call
last)
Input In [234], in <cell line: 1>()
----> 1 target=target.head(150)
      2 data=data.head(150)

AttributeError: 'numpy.ndarray' object has no attribute 'head'
```

Visualisation

```
plt.plot(data[:,0])
```

```
[<matplotlib.lines.Line2D at 0x277d7d81fa0>]
```
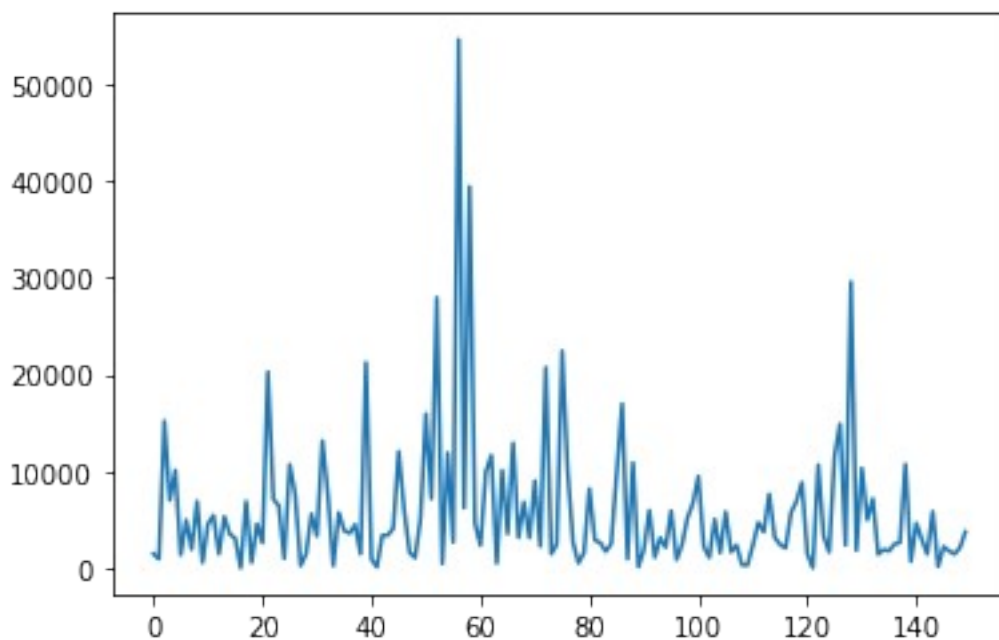
```
plt.plot(data[:,1])
```

[<matplotlib.lines.Line2D at 0x277d7db9340>]
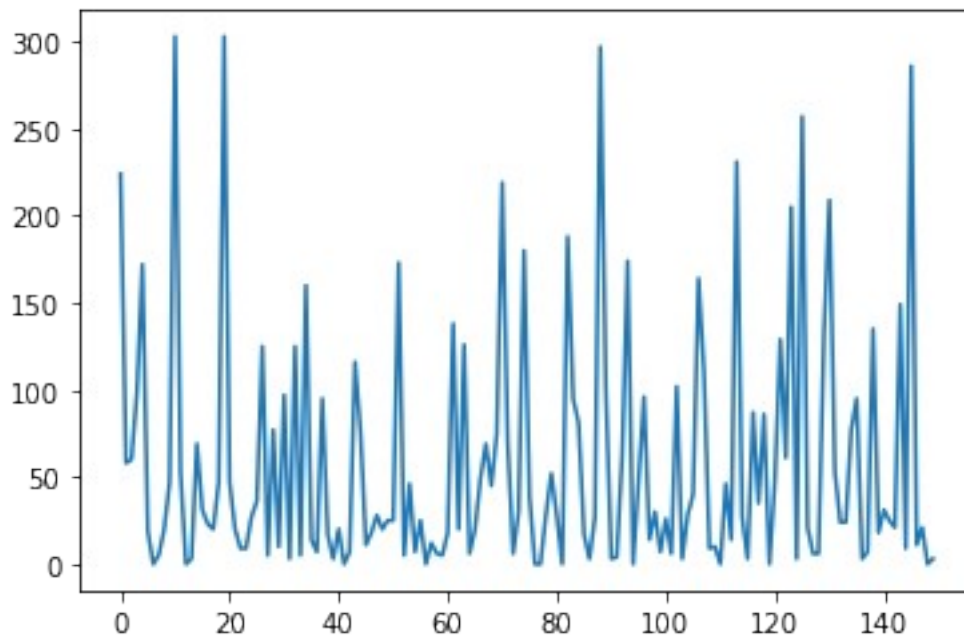

```
plt.plot(data[:,2])
```

[<matplotlib.lines.Line2D at 0x277d7e0fbb0>]


```
plt.plot(data[:,3])
```

[<matplotlib.lines.Line2D at 0x277d7f4c940>]
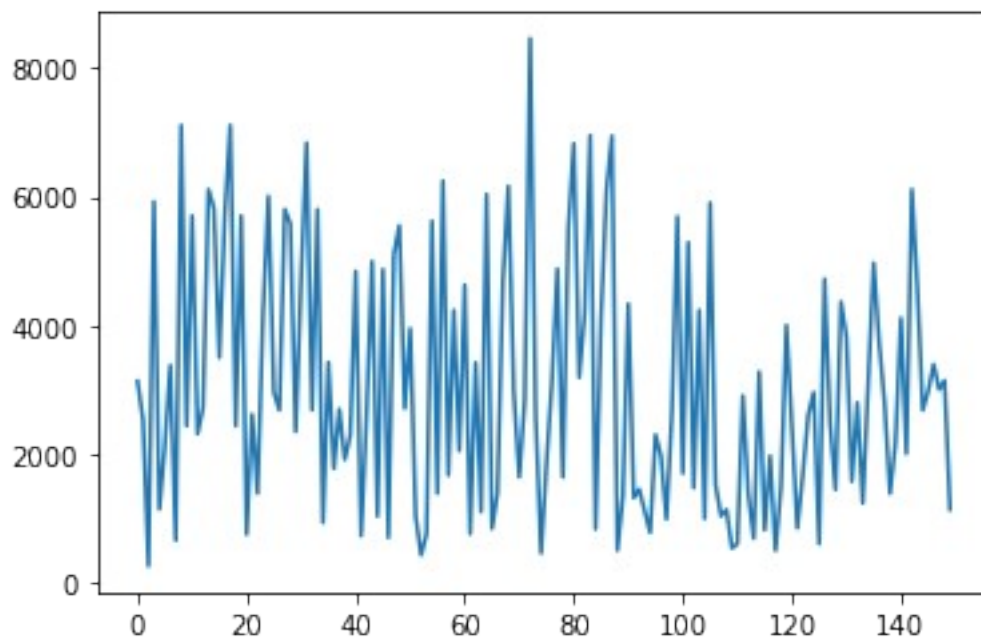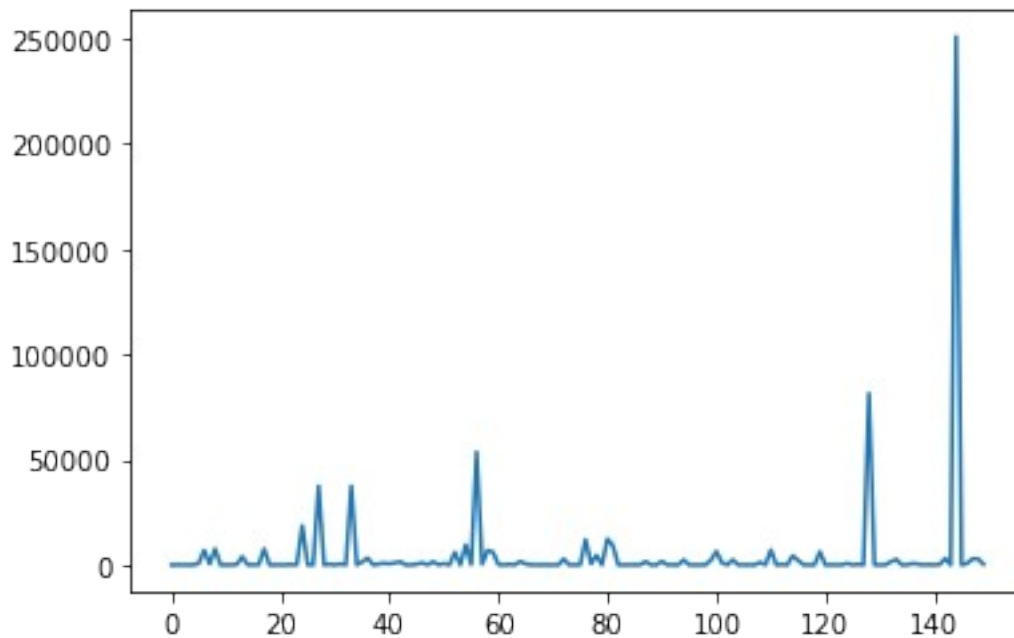
```python
plt.plot(data[:,0],label='Vintage')
plt.plot(data[:,1],label='Dependents')


plt.legend();
```
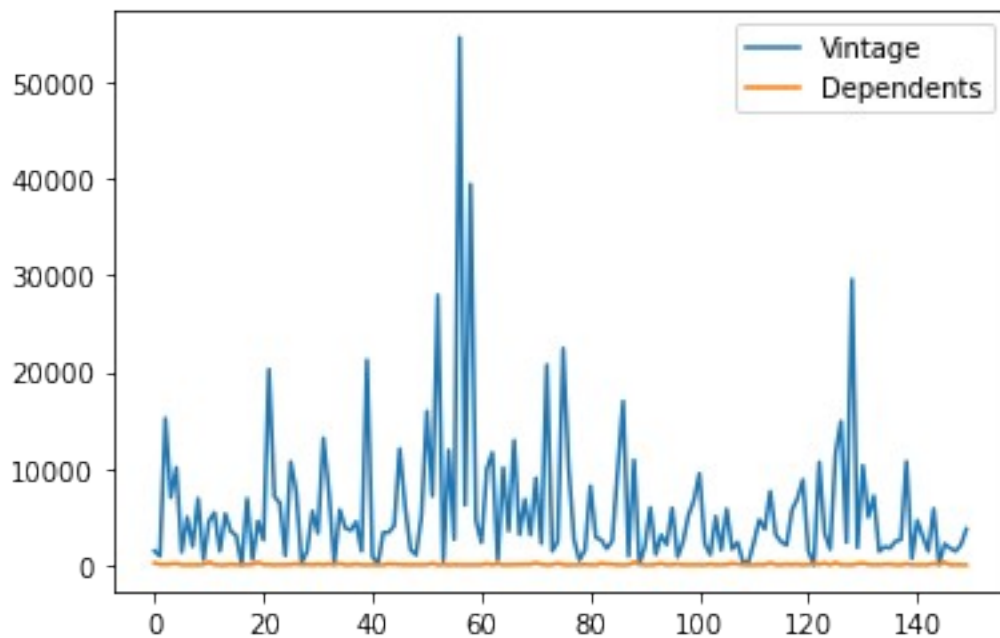

Splitting the data: train and test

```python
from sklearn.model_selection import train_test_split
```

```
X_train,X_test,y_train,y_test=train_test_split(
        data,target,test_size=0.2,random_state=100)
```

```
X_train.shape,X_test.shape,y_train.shape,y_test.shape
```

```
((120, 4), (30, 4), (120,), (30,))
```

Building the model

```
from sklearn.tree import DecisionTreeClassifier
```

```
dt_1=DecisionTreeClassifier()
```

```
## Training the model
```

```
dt_1=dt_1.fit(X_train,y_train)
```

```
dt_1
```

```
DecisionTreeClassifier()
```

Prediciting¶

```
y_pred=dt_1.predict(X_test)
y_pred
```

```
array([0, 0, 0, 0, 0, 0, 0, 1, 0, 0, 0, 0, 0, 1, 0, 0, 0, 0, 0, 1, 0,
0,
       0, 0, 0, 1, 0, 0, 1, 1])
```

```
type(y_test )
```

```
numpy.ndarray
```

```
y_test=y_test.to_numpy(dtype ='float32')
```

```
---------------------------------------------------------------------
-----
AttributeError                          Traceback (most recent call
last)
Input In [244], in <cell line: 1>()
----> 1 y_test=y_test.to_numpy(dtype ='float32')

AttributeError: 'numpy.ndarray' object has no attribute 'to_numpy'
```

```
y_test
```

```
array([0, 1, 0, 1, 0, 0, 0, 1, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 1,
0,
       0, 0, 0, 0, 0, 1, 1, 0])
```

```
type(X)
```

```
pandas.core.frame.DataFrame
```

Finding the performance measures

```python
from sklearn.metrics import
confusion_matrix,classification_report,roc_curve,roc_auc_score


cm=confusion_matrix(y_test,y_pred)

sns.heatmap(cm,annot=True);
score=roc_auc_score(pred_df['Actual Class'],
                    pred_df['Predicted Class'])
score
```

```
0.7127554383651944
```
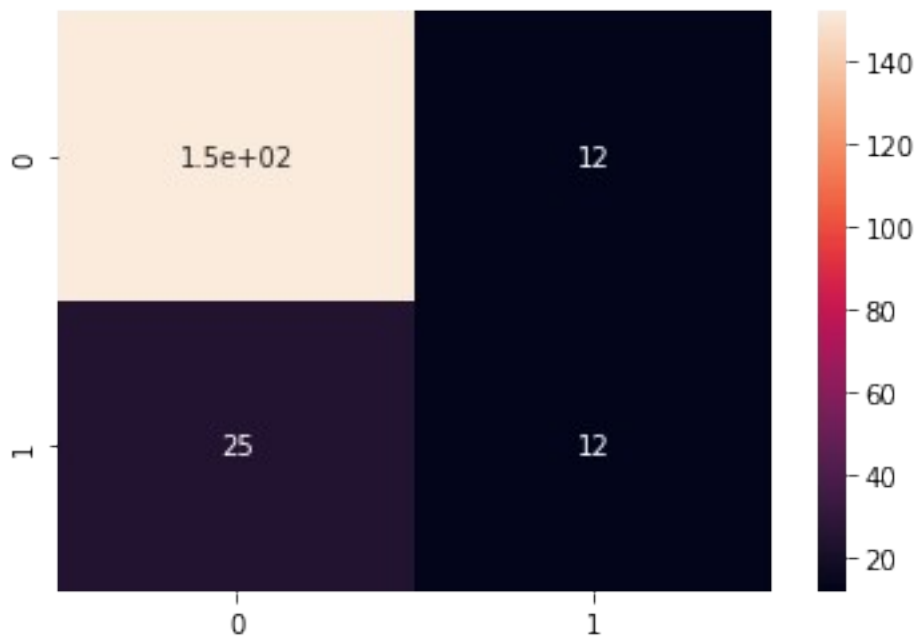


```python
report=classification_report(y_test,y_pred)
print(' The classification report:\n',report)
```

```
 The classification report:
               precision    recall  f1-score   support

           0       0.83      0.83      0.83        24
           1       0.33      0.33      0.33         6

    accuracy                           0.73        30
   macro avg       0.58      0.58      0.58        30
weighted avg       0.73      0.73      0.73        30
```

```
fpr,tpr,_=roc_curve(y_test,y_pred)
plt.plot(fpr,tpr);
```
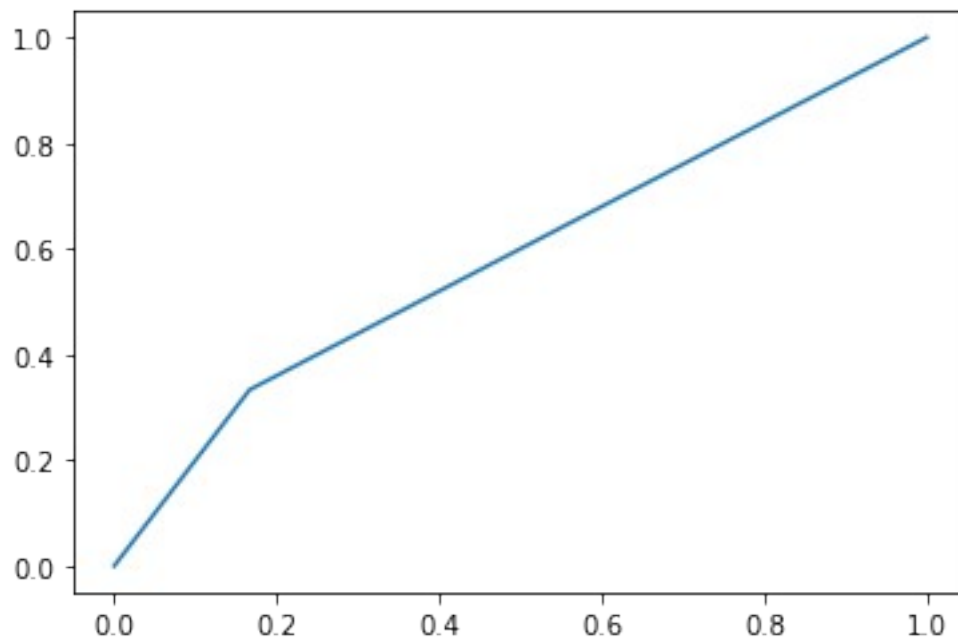

Visualisation of the tree

```
from sklearn.tree import plot_tree
plt.figure(figsize=(20,20))
plot_tree(dt_1);
```
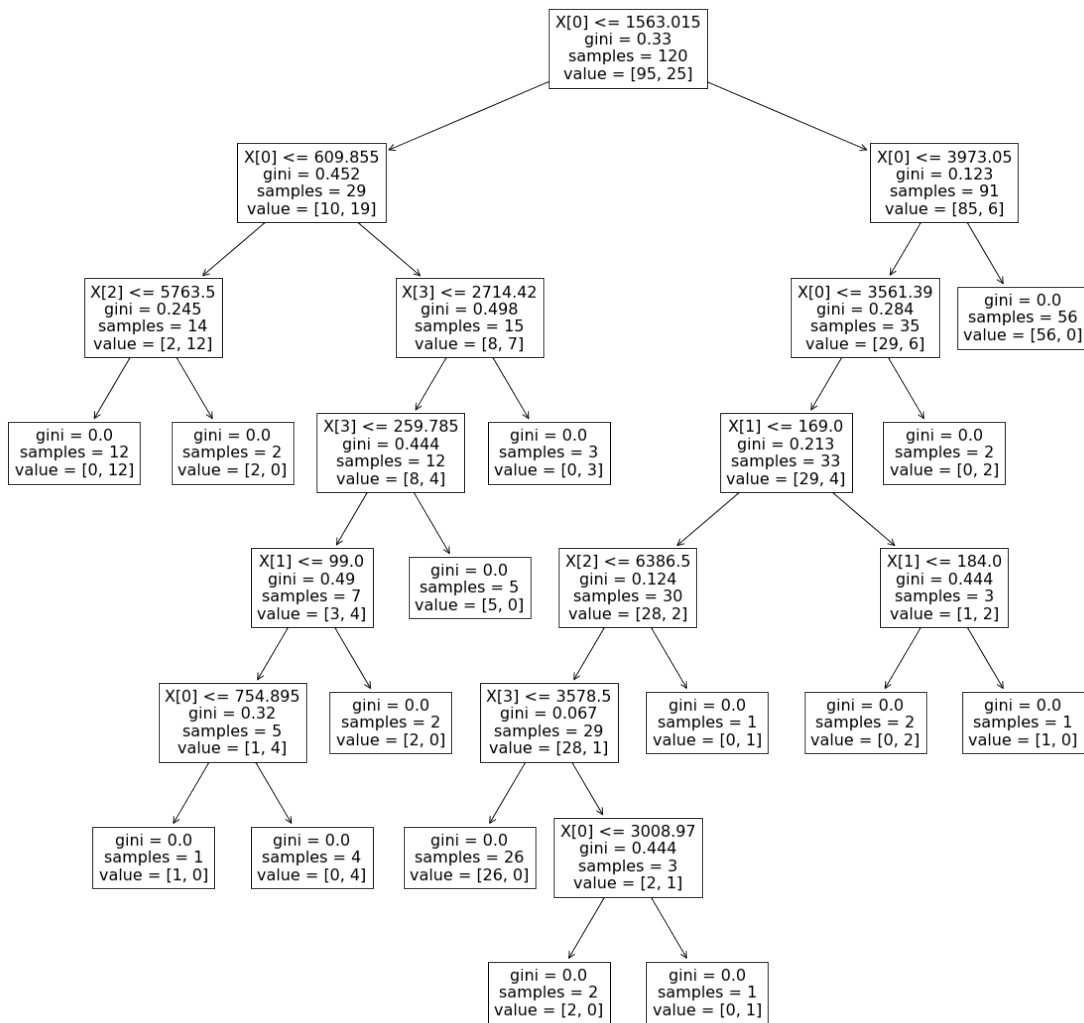
```
plt.figure(figsize=(20,20))
plot_tree(dt_1,filled=True);
```
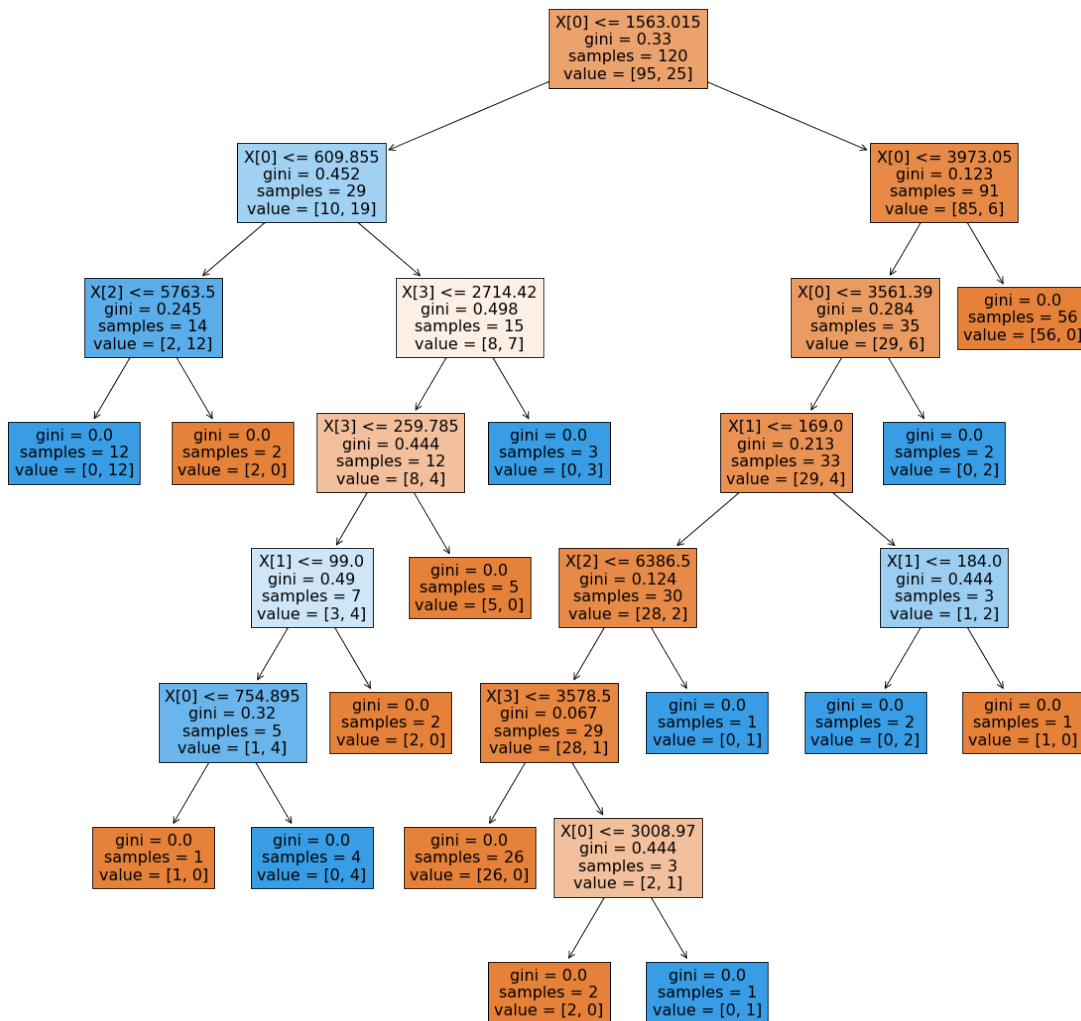
gini = 1- \sum p^2
```
gini= 1- (95/120)**2 - (25/120)**2

print('Gini:', gini)

#data = np.vstack((churn['current_balance'].head(150),
churn['days_since_last_transaction'].head(150),churn['vintage'].head(1
50),churn['current_month_credit'].head(150))).T

Gini: 0.32986111111111116

data1= {'feature_names':
['current_balance','days_since_last_transaction','vintage','current_mo
nth_credit']}

data1['feature_names']
```

```
['current_balance',
 'days_since_last_transaction',
 'vintage',
 'current_month_credit']
```

Decision rules

```
from sklearn.tree import export_text

text=export_text(dt_1,feature_names=data1['feature_names'])
print(text)
```

```
|--- current_balance <= 1563.02
|    |--- current_balance <= 609.86
|    |    |--- vintage <= 5763.50
|    |    |    |--- class: 1
|    |    |--- vintage >  5763.50
|    |    |    |--- class: 0
|    |--- current_balance >  609.86
|    |    |--- current_month_credit <= 2714.42
|    |    |    |--- current_month_credit <= 259.78
|    |    |    |    |--- days_since_last_transaction <= 99.00
|    |    |    |    |    |--- current_balance <= 754.90
|    |    |    |    |    |    |--- class: 0
|    |    |    |    |    |--- current_balance >  754.90
|    |    |    |    |    |    |--- class: 1
|    |    |    |    |--- days_since_last_transaction >  99.00
|    |    |    |    |    |--- class: 0
|    |    |    |--- current_month_credit >  259.78
|    |    |    |    |--- class: 0
|    |    |--- current_month_credit >  2714.42
|    |    |    |--- class: 1
|--- current_balance >  1563.02
|    |--- current_balance <= 3973.05
|    |    |--- current_balance <= 3561.39
|    |    |    |--- days_since_last_transaction <= 169.00
|    |    |    |    |--- vintage <= 6386.50
|    |    |    |    |    |--- current_month_credit <= 3578.50
|    |    |    |    |    |    |--- class: 0
|    |    |    |    |    |--- current_month_credit >  3578.50
|    |    |    |    |    |    |--- current_balance <= 3008.97
|    |    |    |    |    |    |    |--- class: 0
|    |    |    |    |    |    |--- current_balance >  3008.97
|    |    |    |    |    |    |    |--- class: 1
|    |    |    |    |--- vintage >  6386.50
|    |    |    |    |    |--- class: 1
|    |    |    |--- days_since_last_transaction >  169.00
|    |    |    |    |--- days_since_last_transaction <= 184.00
|    |    |    |    |    |--- class: 1
|    |    |    |    |--- days_since_last_transaction >  184.00
|    |    |    |    |    |--- class: 0
```

```
|    |   |--- current_balance >  3561.39
|    |   |   |--- class: 1
|    |--- current_balance >  3973.05
|    |   |--- class: 0
```

dt_1.criterion

'gini'

dt_1.tree_.max_depth

7

dt_1.criterion

'gini'

dt_1.tree_.max_depth

7

Modifying the model

```
dt_2=DecisionTreeClassifier(criterion='entropy',max_depth=3)

dt_2=dt_2.fit(X_train,y_train)
y_pred_2=dt_2.predict(X_test)
cm_2=confusion_matrix(y_test,y_pred_2)
sns.heatmap(cm_2,annot=True);
score=roc_auc_score(pred_df['Actual Class'],
                    pred_df['Predicted Class'])
```
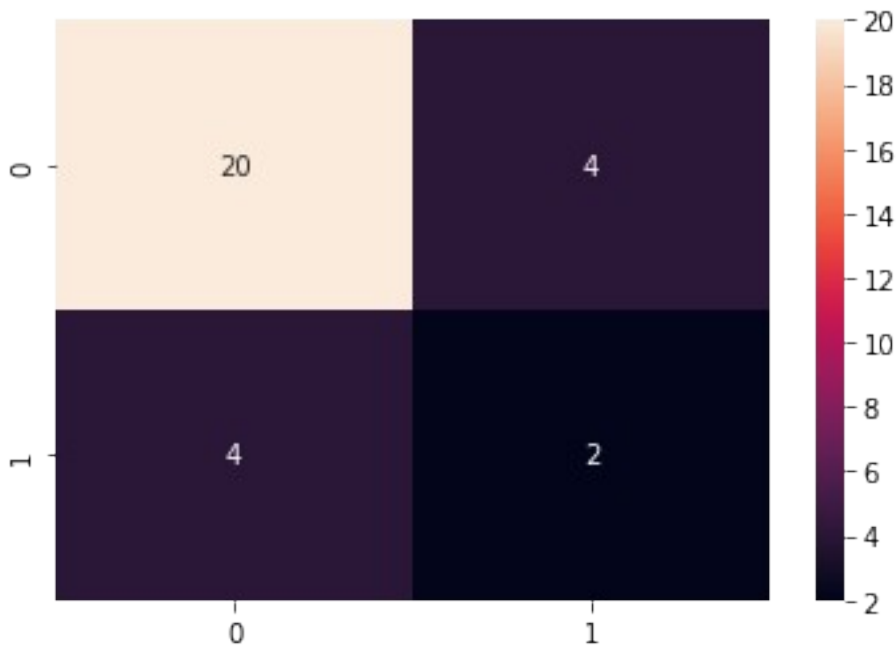
```
plt.figure(figsize=(15,15))

plot_tree(dt_2,filled=True);
```

X[0] <= 1563.015
entropy = 0.738
samples = 120
value = [95, 25]

X[2] <= 1189.5
entropy = 0.929
samples = 29
value = [10, 19]

X[0] <= 3973.05
entropy = 0.351
samples = 91
value = [85, 6]

entropy = 0.0
samples = 6
value = [0, 6]

X[1] <= 20.5
entropy = 0.988
samples = 23
value = [10, 13]

X[0] <= 3561.39
entropy = 0.661
samples = 35
value = [29, 6]

entropy = 0.0
samples = 56
value = [56, 0]

entropy = 0.811
samples = 8
value = [6, 2]

entropy = 0.837
samples = 15
value = [4, 11]

entropy = 0.533
samples = 33
value = [29, 4]

entropy = 0.0
samples = 2
value = [0, 2]

Implementation of SVC

Accessing the dataset

```
import numpy as np
import pandas as pd
import matplotlib.pyplot as plt
import seaborn as sns

churn.isnull().sum()

customer_id                    0
vintage                        0
```

```
age                                0
gender                             0
dependents                         0
occupation                         0
city                               0
customer_nw_category               0
branch_code                        0
days_since_last_transaction        0
current_balance                    0
previous_month_end_balance         0
average_monthly_balance_prevQ      0
average_monthly_balance_prevQ2     0
current_month_credit               0
previous_month_credit              0
current_month_debit                0
previous_month_debit               0
current_month_balance              0
previous_month_balance             0
churn                              0
dtype: int64

y = target

y

0        0
4        1
5        0
6        0
7        0
        ..
1294     0
1295     1
1297     0
1298     0
1299     0
Name: churn, Length: 1001, dtype: int64

y.value_counts()

0    804
1    197
Name: churn, dtype: int64

churn.count()

customer_id                     1001
vintage                         1001
age                             1001
gender                          1001
dependents                      1001
occupation                      1001
```

```
city                                1001
customer_nw_category                1001
branch_code                         1001
days_since_last_transaction         1001
current_balance                     1001
previous_month_end_balance          1001
average_monthly_balance_prevQ       1001
average_monthly_balance_prevQ2      1001
current_month_credit                1001
previous_month_credit               1001
current_month_debit                 1001
previous_month_debit                1001
current_month_balance               1001
previous_month_balance              1001
churn                               1001
dtype: int64

y.value_counts()

0    804
1    197
Name: churn, dtype: int64

type(X)

pandas.core.frame.DataFrame

X
```

	customer_id	vintage	age	gender	dependents	occupation	\
0	1	3135	66	Male	0.0	self_employed	
4	6	2531	42	Male	2.0	self_employed	
5	7	263	42	Female	0.0	self_employed	
6	8	5922	72	Male	0.0	retired	
7	9	1145	46	Male	0.0	self_employed	
...	...	...	...	...	...	...	
1294	1379	1921	71	Female	0.0	self_employed	
1295	1380	766	10	Female	0.0	student	
1297	1382	2993	59	Male	4.0	salaried	
1298	1383	1766	13	Male	0.0	student	
1299	1384	7306	77	Female	0.0	self_employed	

	city	customer_nw_category	branch_code	\
0	Chicago	2	755	
4	Arlington	3	388	
5	Cambridge	2	1666	
6	Revere	1	1	
7	Arvada	2	317	
...	...	...	...	
1294	Tucson	2	1264	
1295	Los Angeles	2	2497	

```
1297  Philadelphia                      3            411
1298  Philadelphia                      1            542
1299  Philadelphia                      1            240

        days_since_last_transaction   current_balance  \
0                           224.0          1458.71
4                            58.0           927.72
5                            60.0         15202.20
6                            98.0          7006.93
7                           172.0         10096.58
...                           ...              ...
1294                         87.0         14734.45
1295                         27.0          6785.93
1297                          0.0          5209.62
1298                        339.0          4616.88
1299                         62.0         14834.26

        previous_month_end_balance  average_monthly_balance_prevQ  \
0                        1458.71                        1458.71
4                        1401.72                        1643.31
5                       16059.34                       15211.29
6                        7714.19                        7859.74
7                        8519.53                        6511.82
...                          ...                            ...
1294                    10439.08                       11546.06
1295                      119.03                        2419.19
1297                     4116.26                        3775.87
1298                     4545.45                        4512.45
1299                    15014.05                       13910.17

        average_monthly_balance_prevQ2  current_month_credit  \
0                           1449.07                    0.20
4                           1871.12                    0.33
5                          13798.82                    0.36
6                          11232.37                    0.64
7                          16314.17                    0.27
...                             ...                      ...
1294                       10473.96                    0.50
1295                         118.29                 7630.32
1297                        3463.84                 1321.96
1298                        4272.54                    0.23
1299                       23436.02                    0.34

        previous_month_credit  current_month_debit  previous_month_debit
\
0                       0.20                 0.20                    0.20

4                     714.61               588.62                 1538.06

5                       0.36               857.50                  286.07
```

6	0.64	1299.64	439.26
7	0.27	443.13	5688.44
...	...	...	...
1294	0.50	30714.79	0.50
1295	0.21	963.42	0.21
1297	773.34	142.89	407.17
1298	0.23	0.23	0.23
1299	0.34	180.13	73.78

```
      current_month_balance  previous_month_balance
0                  1458.71                 1458.71
4                  1157.15                 1677.16
5                 15719.44                15349.75
6                  7076.06                 7755.98
7                  8563.84                 5317.04
...                    ...                     ...
1294              12808.61                10439.08
1295               7019.52                  119.03
1297               3991.89                 3690.78
1298               4582.40                 4513.19
1299              14890.06                14461.60

[1001 rows x 20 columns]
```

```python
X=churn.drop(['churn','gender','customer_id','age','occupation','city',

'branch_code','previous_month_end_balance','average_monthly_balance_prevQ',

'average_monthly_balance_prevQ2','previous_month_credit','previous_month_debit',

'current_month_balance','previous_month_balance'],axis=1)

X
```

```
      vintage  dependents  customer_nw_category  days_since_last_transaction  \
0        3135         0.0                     2
```

```
                                                 224.0
4            2531         2.0                     3
58.0
5             263         0.0                     2
60.0
6            5922         0.0                     1
98.0
7            1145         0.0                     2
172.0
...           ...         ...                   ...
...
1294         1921         0.0                     2
87.0
1295          766         0.0                     2
27.0
1297         2993         4.0                     3
0.0
1298         1766         0.0                     1
339.0
1299         7306         0.0                     1
62.0

      current_balance  current_month_credit  current_month_debit
0             1458.71                  0.20                 0.20
4              927.72                  0.33               588.62
5            15202.20                  0.36               857.50
6             7006.93                  0.64              1299.64
7            10096.58                  0.27               443.13
...               ...                   ...                  ...
1294         14734.45                  0.50             30714.79
1295          6785.93               7630.32               963.42
1297          5209.62               1321.96               142.89
1298          4616.88                  0.23                 0.23
1299         14834.26                  0.34               180.13

[1001 rows x 7 columns]
```

```python
from sklearn.model_selection import train_test_split

X_train,X_test,y_train,y_test=train_test_split(X,y,test_size=0.2,random_state=10)
```

```python
X_train.shape,X_test.shape,y_train.shape,y_test.shape
```

```
((800, 7), (201, 7), (800,), (201,))
```

Building the model

```python
from sklearn.svm import SVC
```

```
svc_lin=SVC(kernel='linear',probability=True)
svc_lin=svc_lin.fit(X_train, y_train)
y_pred=svc_lin.predict(X_test)
y_pred
```

```
array([0, 0, 0, 0, 0, 0, 1, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0,
0,
       1, 1, 0, 1, 1, 0, 0, 1, 1, 1, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0,
0,
       0, 0, 0, 1, 0, 0, 0, 0, 0, 1, 1, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0,
0,
       0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0,
0,
       0, 0, 0, 0, 0, 0, 0, 0, 1, 0, 0, 0, 0, 0, 0, 1, 0, 0, 1, 0, 0,
0,
       0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 1, 0, 0, 0,
0,
       0, 0, 0, 0, 0, 0, 0, 1, 0, 0, 0, 0, 0, 0, 0, 0, 1, 0, 1, 0, 0,
0,
       0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 1, 0, 0, 0, 0, 0,
0,
       0, 0, 0, 1, 1, 0, 0, 0, 0, 1, 0, 0, 0, 0, 1, 0, 0, 0, 0, 0, 0,
1,
       0, 0, 0], dtype=int64)
```

```
y_pred
```

```
y_pred_prob=svc_lin.predict_proba(X_test)
y_pred_prob
```

```
array([[0.79983262, 0.20016738],
       [0.80041282, 0.19958718],
       [0.79699096, 0.20300904],
       [0.80068571, 0.19931429],
       [0.80075719, 0.19924281],
       [0.80059545, 0.19940455],
       [0.80094928, 0.19905072],
       [0.8005735 , 0.1994265 ],
       [0.80048872, 0.19951128],
       [0.80079344, 0.19920656],
       [0.80035238, 0.19964762],
       [0.79862004, 0.20137996],
       [0.7997263 , 0.2002737 ],
       [0.80067274, 0.19932726],
       [0.80074706, 0.19925294],
       [0.800504  , 0.199496  ],
       [0.79947776, 0.20052224],
       [0.80077219, 0.19922781],
       [0.80054825, 0.19945175],
       [0.8007848 , 0.1992152 ],
       [0.79990741, 0.20009259],
```

```
[0.79962947, 0.20037053],
[0.80087095, 0.19912905],
[0.80126458, 0.19873542],
[0.79952224, 0.20047776],
[0.80105191, 0.19894809],
[0.80089844, 0.19910156],
[0.80066131, 0.19933869],
[0.80063136, 0.19936864],
[0.8021268 , 0.1978732 ],
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```

```
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       [0.79775872, 0.20224128]])
```

y_test

```
1099    0
1123    0
1264    0
224     1
1228    0
        ..
247     0
510     0
1144    0
1024    0
243     0
Name: churn, Length: 201, dtype: int64
```

Checking the performance

```
from sklearn.metrics import
confusion_matrix,classification_report,roc_curve,roc_auc_score
```

```python
cm=confusion_matrix(y_test,y_pred)
report=classification_report(y_test,y_pred)
score=roc_auc_score(y_test,y_pred)
fpr,tpr,_=roc_curve(y_test,y_pred_prob[:,1])

sns.heatmap(cm,annot=True)
print(' The Report:\n', report)
print(' The ROC-AUC-Score:',score)
```

```
 The Report:
               precision    recall  f1-score   support

           0       0.86      0.93      0.89       164
           1       0.50      0.32      0.39        37

    accuracy                           0.82       201
   macro avg       0.68      0.63      0.64       201
weighted avg       0.79      0.82      0.80       201

 The ROC-AUC-Score: 0.6255767963085036
```
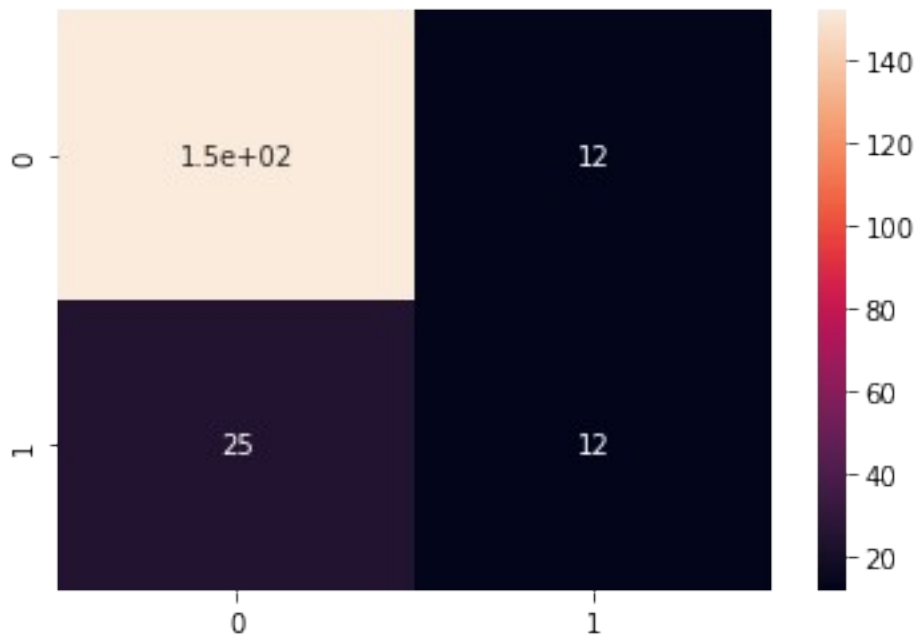


```python
plt.plot(fpr,tpr);
```
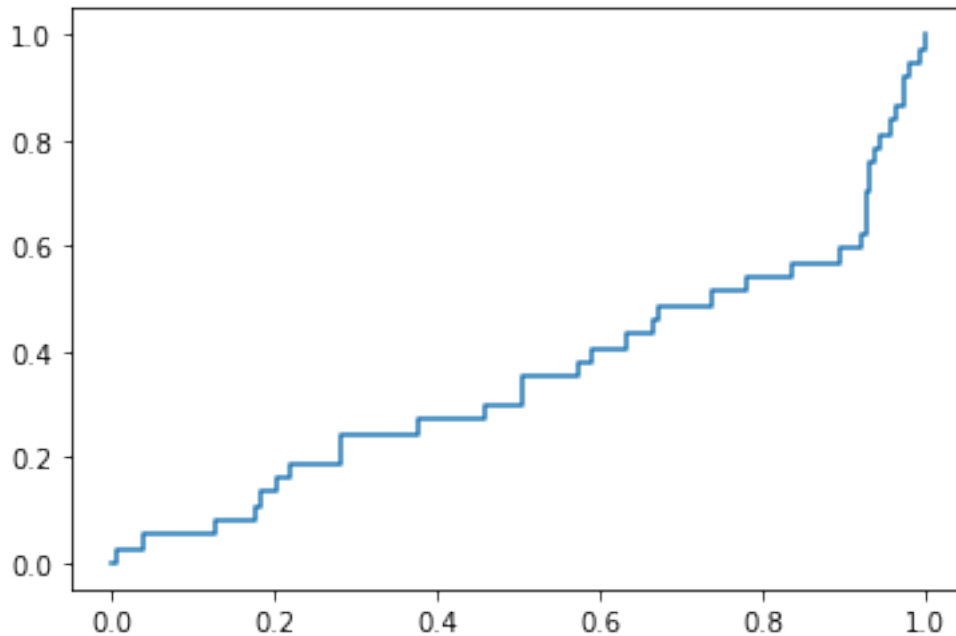
Hyper parameter tuning

kernel

```python
def SVC_tuning_kernel(kernel):
    model=SVC(kernel=kernel)
    model=model.fit(X_train,y_train)
    y_pred=model.predict(X_test)
    cm=confusion_matrix(y_test,y_pred)
    report=classification_report(y_test,y_pred)
    score=roc_auc_score(y_test,y_pred)
    print(' The SVC with kernel:',kernel)
    print()
    print('   ************* ')
    print(' Confusion Matrix:\n',cm)
    print(' The report:\n', report)
    print(' The ROC-AUC-Score:', score)
    sns.heatmap(cm,annot=True);

# Calling the fn

SVC_tuning_kernel('linear')
```

```
 The SVC with kernel: linear

   *************
 Confusion Matrix:
 [[152  12]
 [ 25  12]]
 The report:
                precision    recall  f1-score   support
```

```
           0        0.86       0.93       0.89         164
           1        0.50       0.32       0.39          37

    accuracy                               0.82         201
   macro avg        0.68       0.63       0.64         201
weighted avg        0.79       0.82       0.80         201
```

 The ROC-AUC-Score: 0.6255767963085036
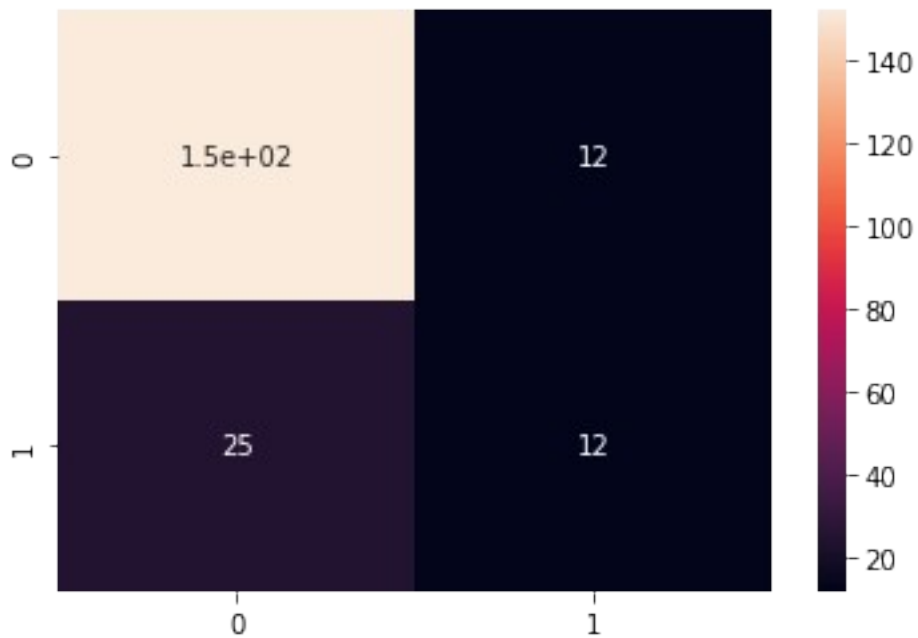
SVC_tuning_kernel('poly')

 The SVC with kernel: poly

  ****
 Confusion Matrix:
 [[164   0]
 [37   0]]
 The report:
```
               precision    recall   f1-score    support

           0        0.82       1.00       0.90         164
           1        0.00       0.00       0.00          37

    accuracy                               0.82         201
   macro avg        0.41       0.50       0.45         201
weighted avg        0.67       0.82       0.73         201
```

 The ROC-AUC-Score: 0.5

```
SVC_tuning_kernel('rbf')
```

 The SVC with kernel: rbf

  ****
 Confusion Matrix:
 [[163   1]
 [36   1]]
 The report:
              precision   recall f1-score   support

           0   0.82   0.99   0.90   164
           1   0.50   0.03   0.05   37
```

```
        accuracy                                 0.82          201
       macro avg         0.66         0.51        0.47          201
    weighted avg         0.76         0.82        0.74          201
```

The ROC-AUC-Score: 0.5104647330257086

SVC_tuning_kernel('sigmoid')

 The SVC with kernel: sigmoid

  ****
 Confusion Matrix:
 [[149 15]
 [31   6]]
 The report:
               precision   recall f1-score   support

            0   0.83   0.91   0.87   164
            1   0.29   0.16   0.21   37

     accuracy   0.77   201
    macro avg   0.56   0.54   0.54   201
 weighted avg   0.73   0.77   0.74   201

 The ROC-AUC-Score: 0.5353493737640079

The best kernel after tuning: linear

```python
# Tuning regularisation parameter

def SVC_tuning_C(C_list):
    for c in C_list:
        model=SVC(kernel='linear',C=c)
        model=model.fit(X_train,y_train)
        y_pred=model.predict(X_test)
        score=roc_auc_score(y_test,y_pred)
        print('C:',c,'===>','Score:',score)


C_list=[0.1,1,2,3,4,5,10,15,20,25,30]

SVC_tuning_C(C_list)

C: 0.1 ===> Score: 0.5911338167435728
C: 1 ===> Score: 0.6255767963085036
C: 2 ===> Score: 0.6255767963085036
C: 3 ===> Score: 0.6255767963085036
C: 4 ===> Score: 0.6255767963085036
C: 5 ===> Score: 0.6255767963085036
C: 10 ===> Score: 0.6255767963085036
C: 15 ===> Score: 0.6120632827949902
C: 20 ===> Score: 0.6255767963085036
C: 25 ===> Score: 0.6255767963085036
C: 30 ===> Score: 0.6255767963085036

C_list=[18,19,21,22]
```
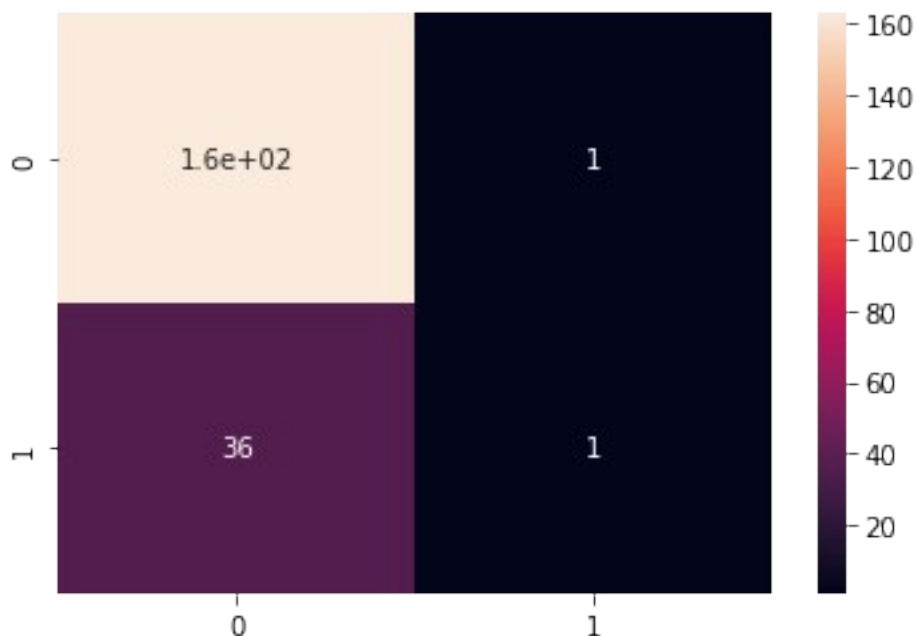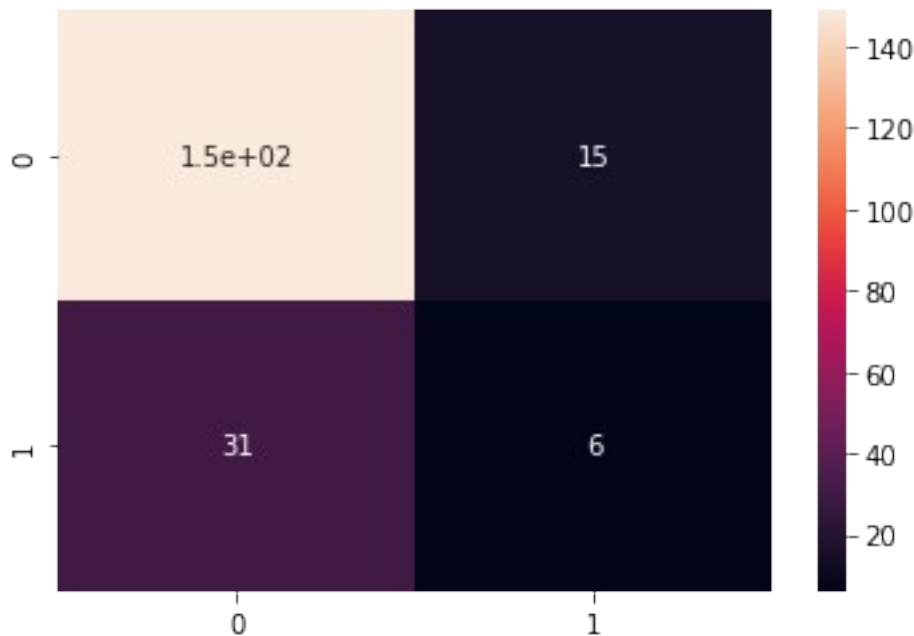
```
SVC_tuning_C(C_list)

C: 18 ===> Score: 0.6255767963085036
C: 19 ===> Score: 0.6255767963085036
C: 21 ===> Score: 0.6255767963085036
C: 22 ===> Score: 0.6255767963085036
```

Afer tuing, the best value of C : 20

So, the best model is the one with kernel='linear' and C=20

The final model

```
svc=SVC(kernel='linear',C=20,probability=True)
svc=svc.fit(X_train,y_train)
y_pred=svc.predict(X_test)
y_pred_prob=svc.predict_proba(X_test)

cm=confusion_matrix(y_test,y_pred)
score=roc_auc_score(y_test,y_pred)
report=classification_report(y_test,y_pred)
fpr,tpr,_=roc_curve(y_test,y_pred_prob[:,1])

print('The Confusion Matrix:')
sns.heatmap(cm,annot=True)
print('ROC-AUC-Score:',score)
print(' The report:',report)
```

```
The Confusion Matrix:
ROC-AUC-Score: 0.6255767963085036
 The report:              precision    recall  f1-score   support

           0       0.86      0.93      0.89       164
           1       0.50      0.32      0.39        37

    accuracy                           0.82       201
   macro avg       0.68      0.63      0.64       201
weighted avg       0.79      0.82      0.80       201
```

Accessing the dataset

```python
import numpy as np
import pandas as pd
import matplotlib.pyplot as plt

# Data set

churn=pd.read_csv('churn_prediction1.csv')

churn
```

```
      customer_id  vintage  age  gender  dependents   occupation  \
0               1     3135   66    Male         0.0  self_employed
1               2      310   35    Male         0.0  self_employed
2               4     2356   31    Male         0.0       salaried
3               5      478   90     NaN         NaN  self_employed
4               6     2531   42    Male         2.0  self_employed
...           ...      ...  ...     ...         ...            ...
1295         1380      766   10  Female         0.0        student
1296         1381     1314   49  Female         0.0  self_employed
1297         1382     2993   59    Male         4.0       salaried
1298         1383     1766   13    Male         0.0        student
1299         1384     7306   77  Female         0.0  self_employed

              city  customer_nw_category  branch_code  \
0          Chicago                     2          755
1              NaN                     2         3214
2          Chicago                     2           41
3           Revere                     2          582
4        Arlington                     3          388
...            ...                   ...          ...
1295   Los Angeles                     2         2497
1296           NaN                     3         1349
1297  Philadelphia                     3          411
1298  Philadelphia                     1          542
1299  Philadelphia                     1          240

      days_since_last_transaction  ...  previous_month_end_balance  \
0                           224.0  ...                     1458.71
1                            60.0  ...                     8704.66
2                             NaN  ...                     5815.29
3                           147.0  ...                     2291.91
4                            58.0  ...                     1401.72
...                           ...  ...                         ...
1295                         27.0  ...                      119.03
1296                         97.0  ...                    15383.49
1297                          0.0  ...                     4116.26
```

```
1298                          339.0  ...                        4545.45
1299                           62.0  ...                       15014.05

       average_monthly_balance_prevQ  average_monthly_balance_prevQ2  \
0                           1458.71                         1449.07
1                           7799.26                        12419.41
2                           4910.17                         2815.94
3                           2084.54                         1006.54
4                           1643.31                         1871.12
...                             ...                             ...
1295                        2419.19                          118.29
1296                       16546.57                         7883.34
1297                        3775.87                         3463.84
1298                        4512.45                         4272.54
1299                       13910.17                        23436.02

       current_month_credit  previous_month_credit  current_month_debit
\
0                      0.20                   0.20                 0.20

1                      0.56                   0.56              5486.27

2                      0.61                   0.61              6046.73

3                      0.47                   0.47                 0.47

4                      0.33                 714.61               588.62

...                     ...                    ...                  ...

1295                7630.32                   0.21               963.42

1296                   0.54                   0.54              1725.80

1297                1321.96                 773.34               142.89

1298                   0.23                   0.23                 0.23

1299                   0.34                   0.34               180.13


       previous_month_debit  current_month_balance
previous_month_balance  \
0                      0.20                1458.71
1458.71
1                    100.56                6496.78
8787.61
2                    259.23                5006.28
5070.14
```

```
3                      2143.33                    2291.91
1669.79
4                      1538.06                    1157.15
1677.16
...                       ...                       ...
...
1295                     0.21                    7019.52
119.03
1296                  2502.37                   14993.75
16766.38
1297                   407.17                    3991.89
3690.78
1298                     0.23                    4582.40
4513.19
1299                    73.78                   14890.06
14461.60

        churn
0           0
1           0
2           0
3           1
4           1
...       ...
1295        1
1296        0
1297        0
1298        0
1299        0

[1300 rows x 21 columns]

X=churn['age']

y=churn['days_since_last_transaction']
```

Plotting

```
plt.figure(figsize=(10,8))
plt.scatter(X,y);
```

```
churn.isnull().sum()

customer_id                          0
vintage                              0
age                                  0
gender                               0
dependents                           0
occupation                           0
city                                 0
customer_nw_category                 0
branch_code                          0
days_since_last_transaction          0
current_balance                      0
previous_month_end_balance           0
average_monthly_balance_prevQ        0
average_monthly_balance_prevQ2       0
current_month_credit                 0
previous_month_credit                0
current_month_debit                  0
previous_month_debit                 0
current_month_balance                0
previous_month_balance               0
churn                                0
dtype: int64
```

```python
churn.dropna(inplace=True)

churn.isnull().sum()
```

```
customer_id                        0
vintage                            0
age                                0
gender                             0
dependents                         0
occupation                         0
city                               0
customer_nw_category               0
branch_code                        0
days_since_last_transaction        0
current_balance                    0
previous_month_end_balance         0
average_monthly_balance_prevQ      0
average_monthly_balance_prevQ2     0
current_month_credit               0
previous_month_credit              0
current_month_debit                0
previous_month_debit               0
current_month_balance              0
previous_month_balance             0
churn                              0
dtype: int64
```

```python
X=churn['age'].head(150)
y=churn['days_since_last_transaction'].head(150)

plt.figure(figsize=(10,8))
plt.scatter(X,y);
```
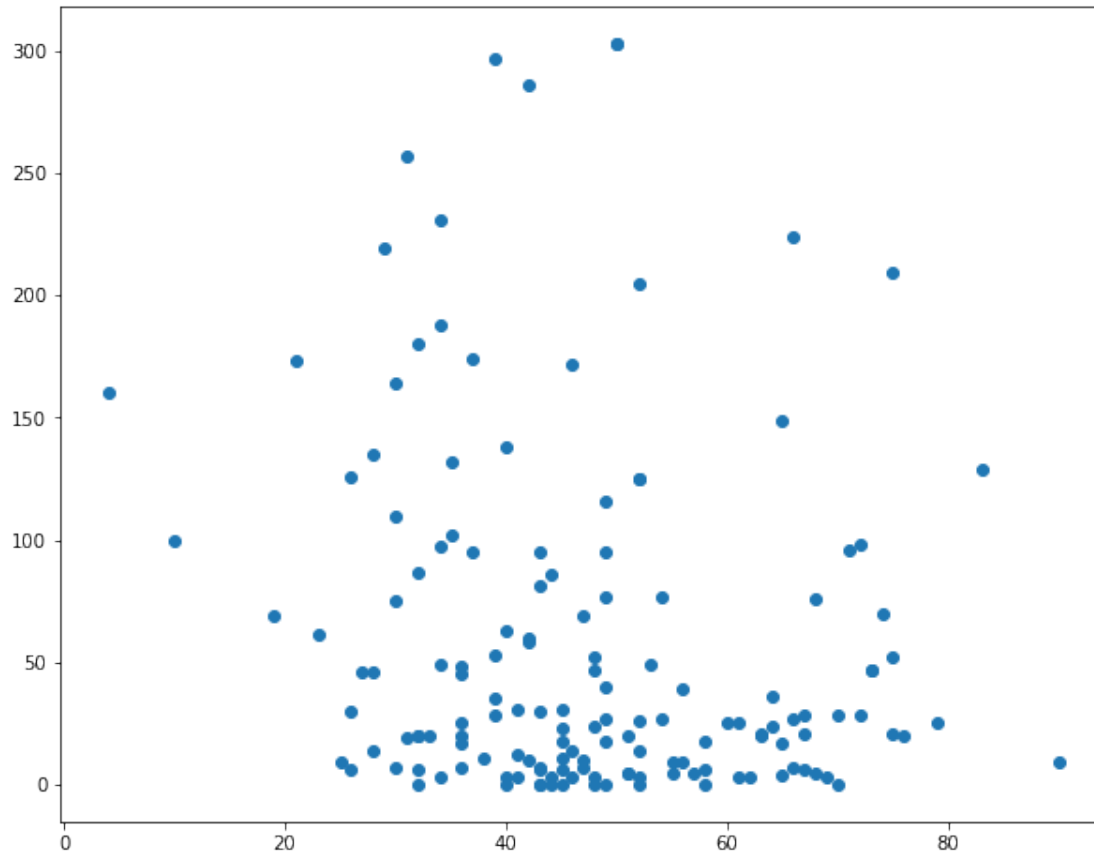
Desinging a simple LR model

```
from sklearn.linear_model import LinearRegression

lr=LinearRegression()

lr.fit(X.to_numpy().reshape(-1,1),y)

LinearRegression()

# Plotting

plt.figure(figsize=(10,8))
plt.scatter(X,y)
plt.plot(X,lr.predict(X.to_numpy().reshape(-1,1)));
```
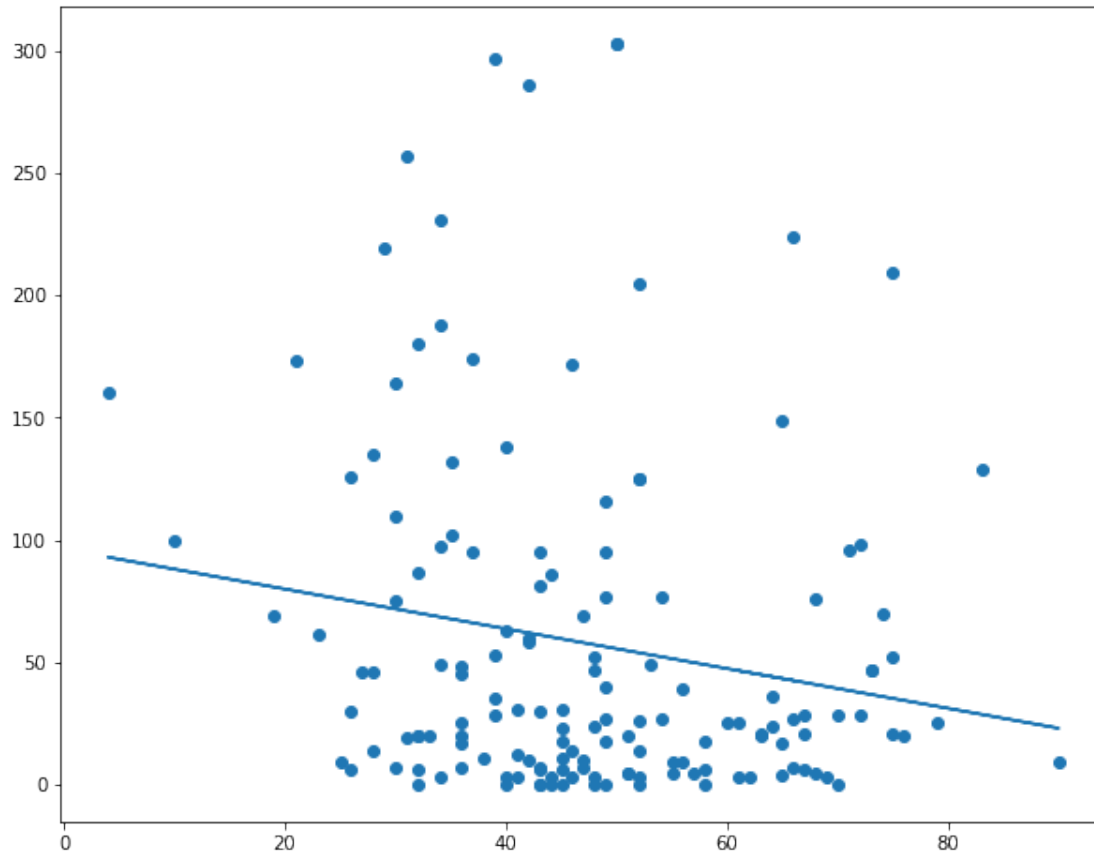
Polynomial Regression

```python
from sklearn.preprocessing import PolynomialFeatures

p2=PolynomialFeatures(degree=2)

Xp2=p2.fit_transform(X.to_numpy().reshape(-1,1))

Xp2

array([[1.000e+00, 6.600e+01, 4.356e+03],
       [1.000e+00, 4.200e+01, 1.764e+03],
       [1.000e+00, 4.200e+01, 1.764e+03],
       [1.000e+00, 7.200e+01, 5.184e+03],
       [1.000e+00, 4.600e+01, 2.116e+03],
       [1.000e+00, 3.100e+01, 9.610e+02],
       [1.000e+00, 4.000e+01, 1.600e+03],
       [1.000e+00, 6.800e+01, 4.624e+03],
       [1.000e+00, 3.200e+01, 1.024e+03],
       [1.000e+00, 7.300e+01, 5.329e+03],
       [1.000e+00, 5.000e+01, 2.500e+03],
       [1.000e+00, 4.800e+01, 2.304e+03],
       [1.000e+00, 4.900e+01, 2.401e+03],
       [1.000e+00, 5.200e+01, 2.704e+03],
```

```
[1.000e+00, 4.700e+01, 2.209e+03],
[1.000e+00, 4.100e+01, 1.681e+03],
[1.000e+00, 4.500e+01, 2.025e+03],
[1.000e+00, 3.200e+01, 1.024e+03],
[1.000e+00, 7.300e+01, 5.329e+03],
[1.000e+00, 5.000e+01, 2.500e+03],
[1.000e+00, 4.800e+01, 2.304e+03],
[1.000e+00, 3.600e+01, 1.296e+03],
[1.000e+00, 5.600e+01, 3.136e+03],
[1.000e+00, 5.500e+01, 3.025e+03],
[1.000e+00, 6.600e+01, 4.356e+03],
[1.000e+00, 6.400e+01, 4.096e+03],
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[1.000e+00, 5.100e+01, 2.601e+03],
[1.000e+00, 5.400e+01, 2.916e+03],
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[1.000e+00, 3.400e+01, 1.156e+03],
[1.000e+00, 6.900e+01, 4.761e+03],
[1.000e+00, 5.200e+01, 2.704e+03],
[1.000e+00, 5.100e+01, 2.601e+03],
[1.000e+00, 4.000e+00, 1.600e+01],
[1.000e+00, 5.200e+01, 2.704e+03],
[1.000e+00, 3.000e+01, 9.000e+02],
[1.000e+00, 4.300e+01, 1.849e+03],
[1.000e+00, 6.500e+01, 4.225e+03],
[1.000e+00, 3.400e+01, 1.156e+03],
[1.000e+00, 5.100e+01, 2.601e+03],
[1.000e+00, 4.400e+01, 1.936e+03],
[1.000e+00, 4.300e+01, 1.849e+03],
[1.000e+00, 4.900e+01, 2.401e+03],
[1.000e+00, 6.800e+01, 4.624e+03],
[1.000e+00, 4.500e+01, 2.025e+03],
[1.000e+00, 4.500e+01, 2.025e+03],
[1.000e+00, 6.700e+01, 4.489e+03],
[1.000e+00, 7.600e+01, 5.776e+03],
[1.000e+00, 6.000e+01, 3.600e+03],
[1.000e+00, 7.900e+01, 6.241e+03],
[1.000e+00, 2.100e+01, 4.410e+02],
[1.000e+00, 5.700e+01, 3.249e+03],
[1.000e+00, 2.700e+01, 7.290e+02],
[1.000e+00, 4.700e+01, 2.209e+03],
[1.000e+00, 6.100e+01, 3.721e+03],
[1.000e+00, 7.000e+01, 4.900e+03],
[1.000e+00, 4.100e+01, 1.681e+03],
[1.000e+00, 3.200e+01, 1.024e+03],
[1.000e+00, 5.500e+01, 3.025e+03],
[1.000e+00, 5.800e+01, 3.364e+03],
[1.000e+00, 4.000e+01, 1.600e+03],
[1.000e+00, 6.300e+01, 3.969e+03],
[1.000e+00, 2.600e+01, 6.760e+02],
```

```
[1.000e+00, 5.800e+01, 3.364e+03],
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[1.000e+00, 5.300e+01, 2.809e+03],
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[1.000e+00, 3.000e+01, 9.000e+02],
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[1.000e+00, 2.600e+01, 6.760e+02],
[1.000e+00, 3.200e+01, 1.024e+03],
[1.000e+00, 5.600e+01, 3.136e+03],
[1.000e+00, 4.300e+01, 1.849e+03],
[1.000e+00, 4.800e+01, 2.304e+03],
[1.000e+00, 7.200e+01, 5.184e+03],
[1.000e+00, 7.500e+01, 5.625e+03],
[1.000e+00, 7.000e+01, 4.900e+03],
[1.000e+00, 4.300e+01, 1.849e+03],
[1.000e+00, 3.400e+01, 1.156e+03],
[1.000e+00, 4.900e+01, 2.401e+03],
[1.000e+00, 4.300e+01, 1.849e+03],
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[1.000e+00, 6.500e+01, 4.225e+03],
[1.000e+00, 4.000e+01, 1.600e+03],
[1.000e+00, 3.700e+01, 1.369e+03],
[1.000e+00, 5.800e+01, 3.364e+03],
[1.000e+00, 3.400e+01, 1.156e+03],
[1.000e+00, 7.100e+01, 5.041e+03],
[1.000e+00, 4.600e+01, 2.116e+03],
[1.000e+00, 4.300e+01, 1.849e+03],
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[1.000e+00, 5.200e+01, 2.704e+03],
[1.000e+00, 4.500e+01, 2.025e+03],
[1.000e+00, 3.500e+01, 1.225e+03],
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[1.000e+00, 4.900e+01, 2.401e+03],
[1.000e+00, 3.000e+01, 9.000e+02],
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[1.000e+00, 2.500e+01, 6.250e+02],
[1.000e+00, 4.200e+01, 1.764e+03],
[1.000e+00, 4.500e+01, 2.025e+03],
[1.000e+00, 2.800e+01, 7.840e+02],
[1.000e+00, 2.800e+01, 7.840e+02],
[1.000e+00, 3.400e+01, 1.156e+03],
```

```
       [1.000e+00, 4.900e+01, 2.401e+03],
       [1.000e+00, 4.000e+01, 1.600e+03],
       [1.000e+00, 3.200e+01, 1.024e+03],
       [1.000e+00, 3.900e+01, 1.521e+03],
       [1.000e+00, 4.400e+01, 1.936e+03],
       [1.000e+00, 5.200e+01, 2.704e+03],
       [1.000e+00, 3.600e+01, 1.296e+03],
       [1.000e+00, 8.300e+01, 6.889e+03],
       [1.000e+00, 2.300e+01, 5.290e+02],
       [1.000e+00, 5.200e+01, 2.704e+03],
       [1.000e+00, 4.600e+01, 2.116e+03],
       [1.000e+00, 3.100e+01, 9.610e+02],
       [1.000e+00, 6.300e+01, 3.969e+03],
       [1.000e+00, 2.600e+01, 6.760e+02],
       [1.000e+00, 4.300e+01, 1.849e+03],
       [1.000e+00, 3.500e+01, 1.225e+03],
       [1.000e+00, 7.500e+01, 5.625e+03],
       [1.000e+00, 3.900e+01, 1.521e+03],
       [1.000e+00, 6.400e+01, 4.096e+03],
       [1.000e+00, 4.800e+01, 2.304e+03],
       [1.000e+00, 4.900e+01, 2.401e+03],
       [1.000e+00, 3.700e+01, 1.369e+03],
       [1.000e+00, 4.400e+01, 1.936e+03],
       [1.000e+00, 3.600e+01, 1.296e+03],
       [1.000e+00, 2.800e+01, 7.840e+02],
       [1.000e+00, 4.900e+01, 2.401e+03],
       [1.000e+00, 4.500e+01, 2.025e+03],
       [1.000e+00, 3.600e+01, 1.296e+03],
       [1.000e+00, 6.700e+01, 4.489e+03],
       [1.000e+00, 6.500e+01, 4.225e+03],
       [1.000e+00, 9.000e+01, 8.100e+03],
       [1.000e+00, 4.200e+01, 1.764e+03],
       [1.000e+00, 3.800e+01, 1.444e+03],
       [1.000e+00, 7.500e+01, 5.625e+03],
       [1.000e+00, 3.200e+01, 1.024e+03],
       [1.000e+00, 6.100e+01, 3.721e+03]])
X

0      66
4      42
5      42
6      72
7      46
       ..
190    42
191    38
192    75
193    32
194    61
Name: age, Length: 150, dtype: int64
```

```
lr2=LinearRegression()
pr2=lr2.fit(Xp2,y)
```

```
# Plotting
```

```
plt.figure(figsize=(10,8))
plt.scatter(X,y)
plt.plot(X,lr.predict(X.to_numpy().reshape(-1,1)),label='Linear Reg')
plt.plot(X,pr2.predict(Xp2), label='Poly Reg degree 2' )
plt.legend();
```
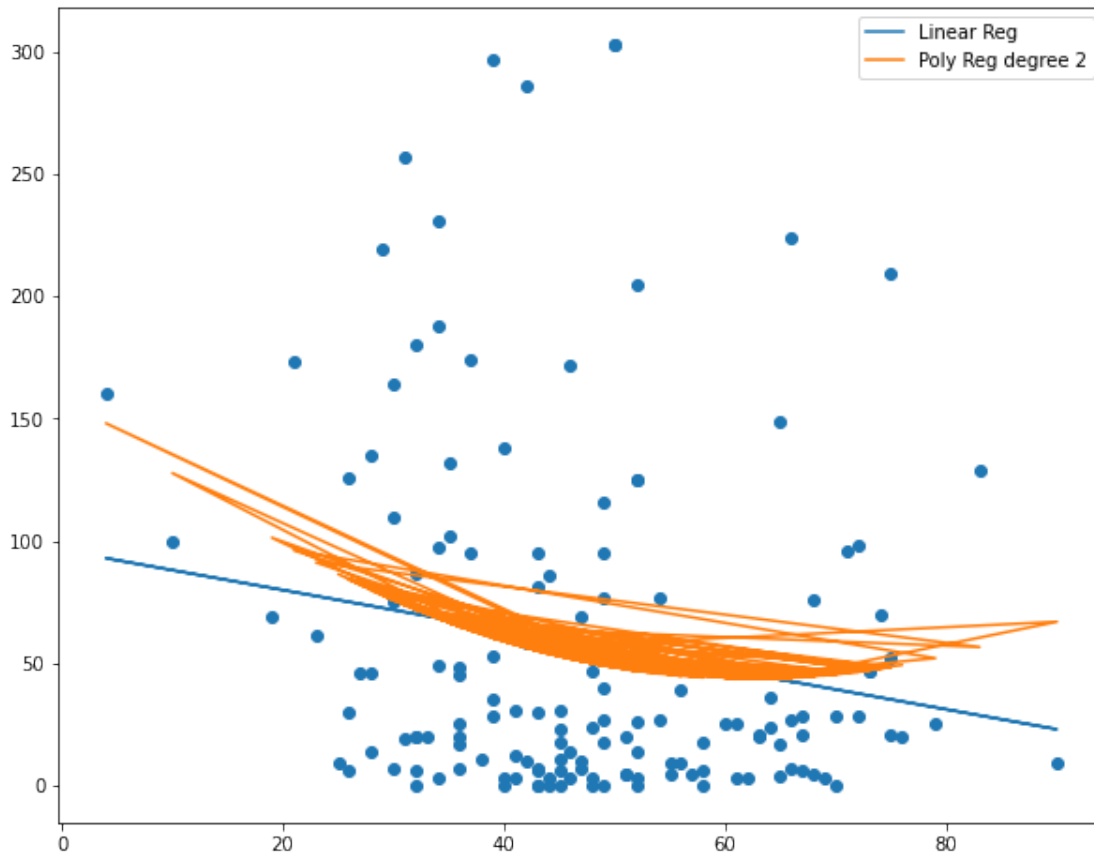


```
# Degree 3
```

```
p3=PolynomialFeatures(degree=3)
```

```
Xp3=p3.fit_transform(X.to_numpy().reshape(-1,1))
```

```
Xp3
```

```
lr3= LinearRegression()
pr3=lr3.fit(Xp3,y)
```

```
# Plotting
```

```
plt.figure(figsize=(10,8))
plt.scatter(X,y)
plt.plot(X,lr.predict(X.to_numpy().reshape(-1,1)),label='Linear Reg')
plt.plot(X,pr2.predict(Xp2), label='Poly Reg degree 2' )
plt.plot(X,pr3.predict(Xp3), label='Poly Reg degree 3')
plt.legend();
```
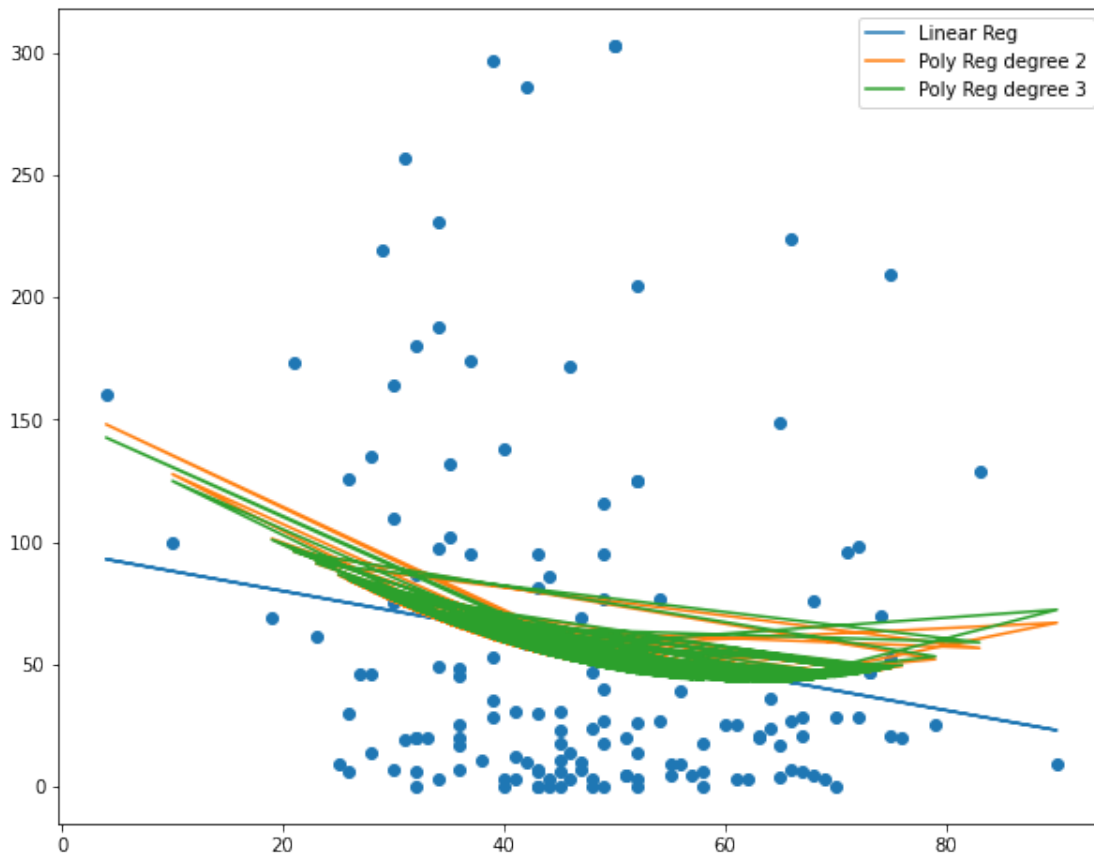


```
# Degree 5

p5=PolynomialFeatures(degree=5)

Xp5=p5.fit_transform(X.to_numpy().reshape(-1,1))

lr5= LinearRegression()
pr5=lr5.fit(Xp5,y)
```

```
# Plotting

plt.figure(figsize=(10,8))
plt.scatter(X,y)
plt.plot(X,lr.predict(X.to_numpy().reshape(-1,1)),label='Linear Reg')
plt.plot(X,pr2.predict(Xp2), label='Poly Reg degree 2' )
plt.plot(X,pr3.predict(Xp3), label='Poly Reg degree 3')
```

```
plt.plot(X,pr5.predict(Xp5), label='Poly Reg degree 5')
plt.legend();
```
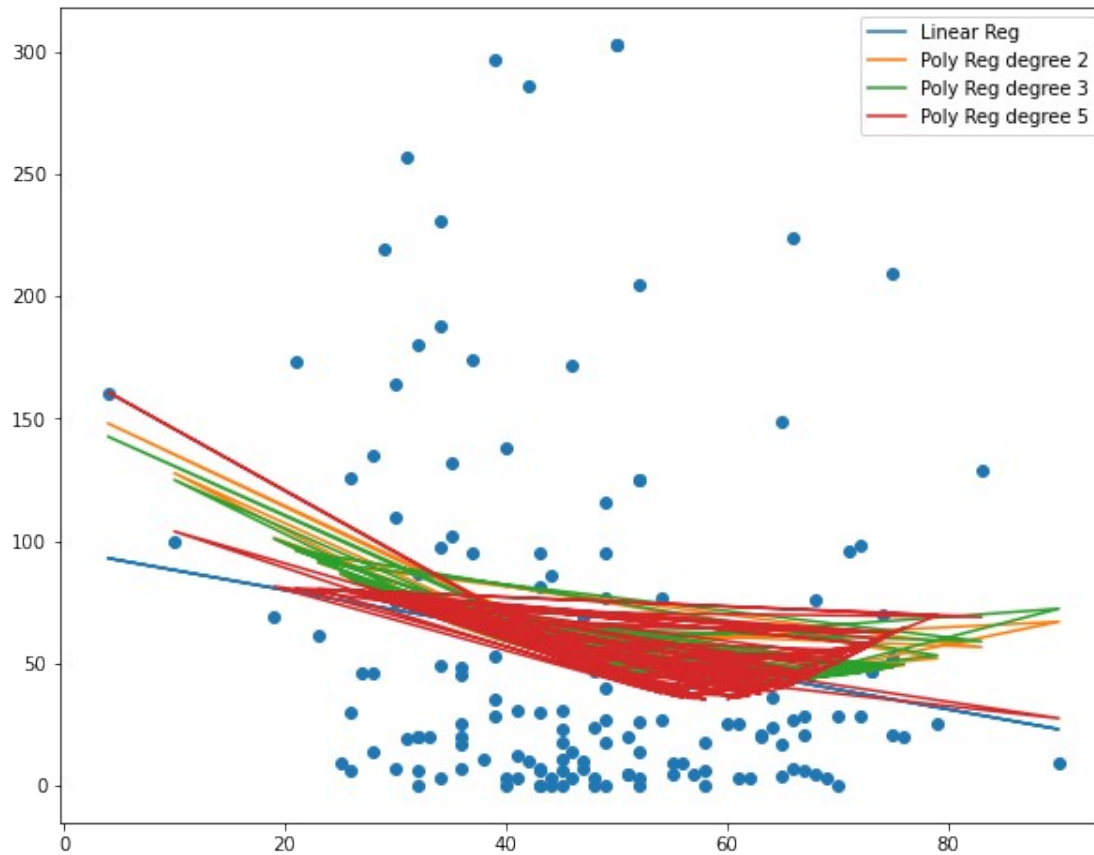

Degree 10

```
p10=PolynomialFeatures(degree=10)

Xp10=p10.fit_transform(X.to_numpy().reshape(-1,1))

lr10= LinearRegression()
pr10=lr10.fit(Xp10,y)
```

Plotting

```
plt.figure(figsize=(10,8))
plt.scatter(X,y)
plt.plot(X,lr.predict(X.to_numpy().reshape(-1,1)),label='Linear Reg')
plt.plot(X,pr2.predict(Xp2), label='Poly Reg degree 2' )
plt.plot(X,pr3.predict(Xp3), label='Poly Reg degree 3')
plt.plot(X,pr5.predict(Xp5), label='Poly Reg degree 5')
plt.plot(X,pr10.predict(Xp10), label='Poly Reg degree 10')
plt.legend();
```
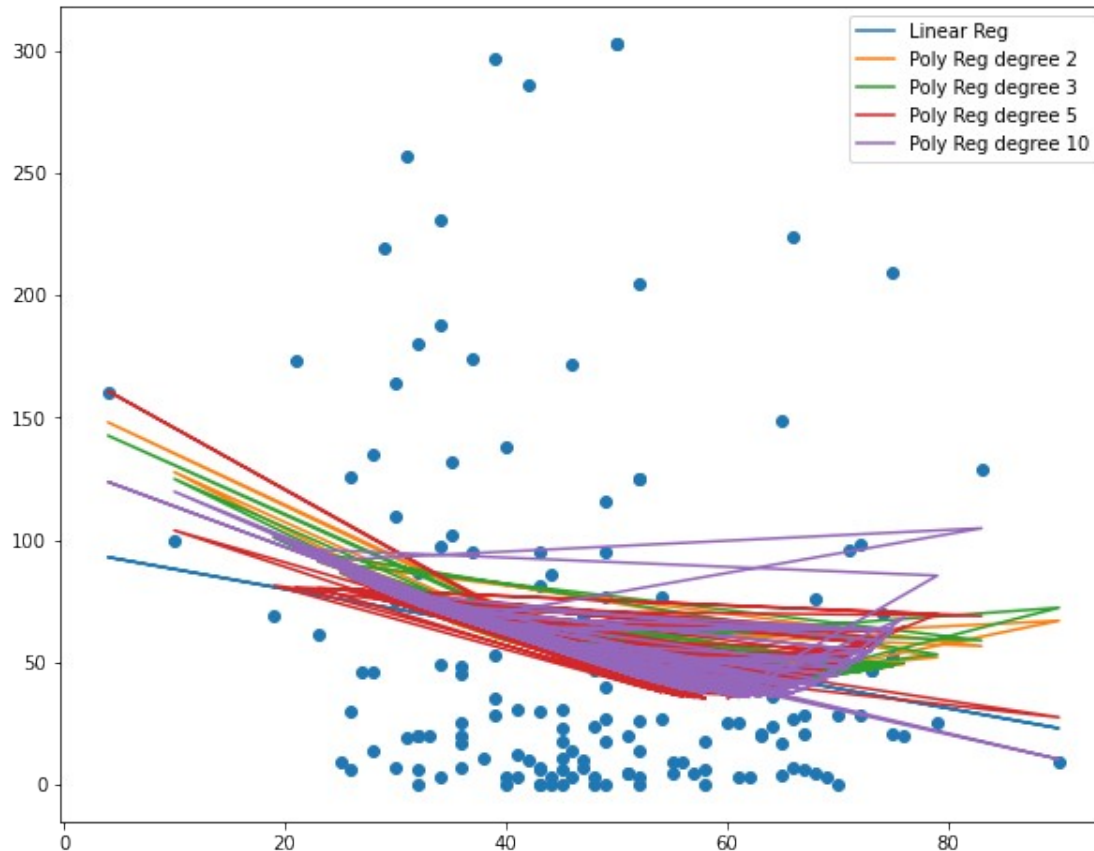
```python
# Degree 25

p25=PolynomialFeatures(degree=25)

Xp25=p25.fit_transform(X.to_numpy().reshape(-1,1))

lr25= LinearRegression()
pr25=lr25.fit(Xp25,y)

# Plotting

plt.figure(figsize=(10,8))
plt.scatter(X,y)
plt.plot(X,lr.predict(X.to_numpy().reshape(-1,1)),label='Linear Reg')
plt.plot(X,pr2.predict(Xp2), label='Poly Reg degree 2' )
plt.plot(X,pr3.predict(Xp3), label='Poly Reg degree 3')
plt.plot(X,pr5.predict(Xp5), label='Poly Reg degree 5')
plt.plot(X,pr10.predict(Xp10), label='Poly Reg degree 10')
plt.plot(X,pr25.predict(Xp25), label='Poly Reg degree 25')
plt.legend();
```
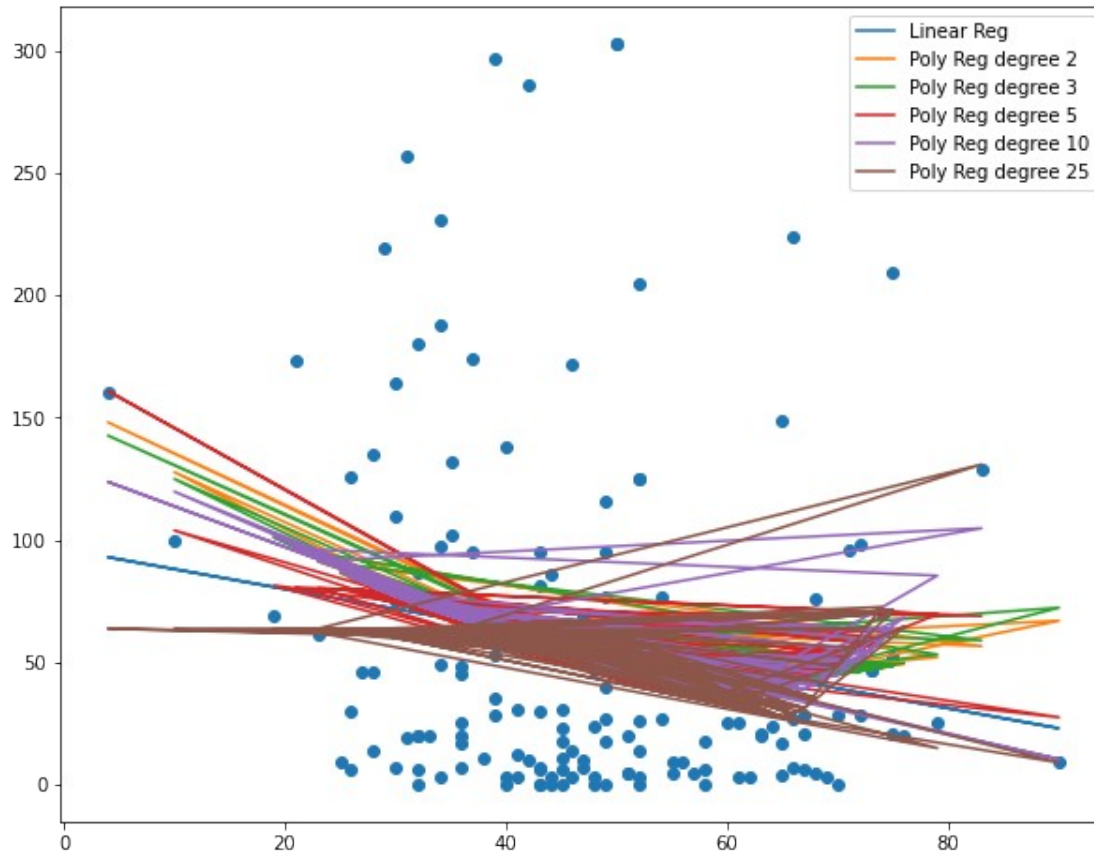
Degree 75

```python
p75=PolynomialFeatures(degree=75)

Xp75=p75.fit_transform(X.to_numpy().reshape(-1,1))

lr75= LinearRegression()
pr75=lr75.fit(Xp75,y)

plt.figure(figsize=(10,8))
plt.scatter(X,y)
plt.plot(X,lr.predict(X.to_numpy().reshape(-1,1)),label='Linear Reg')
plt.plot(X,pr2.predict(Xp2), label='Poly Reg degree 2' )
plt.plot(X,pr3.predict(Xp3), label='Poly Reg degree 3')
plt.plot(X,pr5.predict(Xp5), label='Poly Reg degree 5')
plt.plot(X,pr10.predict(Xp10), label='Poly Reg degree 10')
plt.plot(X,pr25.predict(Xp25), label='Poly Reg degree 25')
plt.plot(X,pr75.predict(Xp75), label='Poly Reg degree 75')
plt.legend();
```

```
plt.figure(figsize=(10,8))
plt.scatter(X,y)
plt.plot(X,lr.predict(X.to_numpy().reshape(-1,1)),label='Linear Reg')
# plt.plot(X,pr2.predict(Xp2), label='Poly Reg degree 2' )
# plt.plot(X,pr3.predict(Xp3), label='Poly Reg degree 3')
# plt.plot(X,pr5.predict(Xp5), label='Poly Reg degree 5')
# plt.plot(X,pr10.predict(Xp10), label='Poly Reg degree 10')
# plt.plot(X,pr25.predict(Xp25), label='Poly Reg degree 25')
plt.plot(X,pr75.predict(Xp75), label='Poly Reg degree 75')
plt.legend();
```
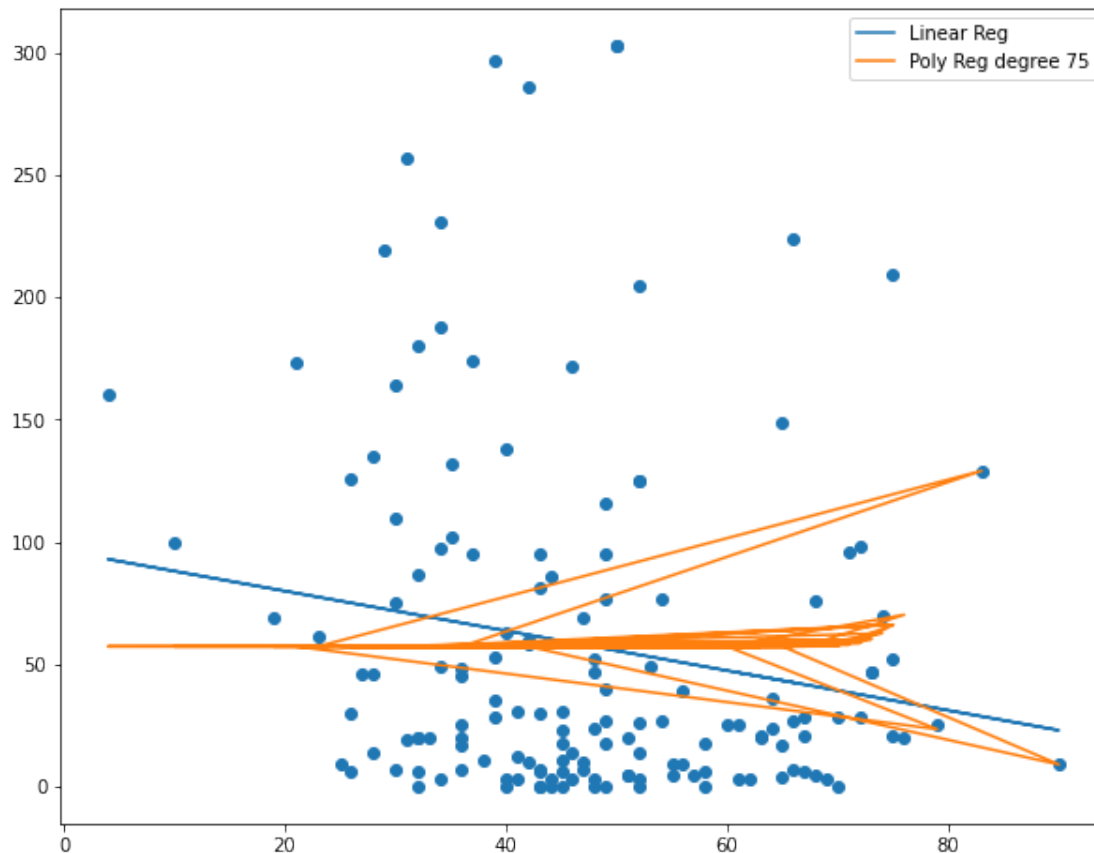
Overfitting and resolving it

Overfitting

Cross validation- k fold cross validation

Regularisation - LR

Lasso

Ridge

Elastic Net

Overfitting:

Phenomenon where training performance is good, but testing performance not good.

Sourcing the data

```
import numpy as np
import pandas as pd
import matplotlib.pyplot as plt
```

```python
X=churn.drop(['churn','gender','customer_id','age','occupation','city',
'branch_code','previous_month_end_balance','average_monthly_balance_prevQ',
'average_monthly_balance_prevQ2','previous_month_credit','previous_month_debit',
'current_month_balance','previous_month_balance'],axis=1)
X
```

```
      vintage  dependents  customer_nw_category  days_since_last_transaction  \
0        3135         0.0                     2                        224.0
4        2531         2.0                     3                         58.0
5         263         0.0                     2                         60.0
6        5922         0.0                     1                         98.0
7        1145         0.0                     2                        172.0
...       ...         ...                   ...                          ...
1294     1921         0.0                     2                         87.0
1295      766         0.0                     2                         27.0
1297     2993         4.0                     3                          0.0
1298     1766         0.0                     1                        339.0
1299     7306         0.0                     1                         62.0

      current_balance  current_month_credit  current_month_debit
0             1458.71                  0.20                 0.20
4              927.72                  0.33               588.62
5            15202.20                  0.36               857.50
6             7006.93                  0.64              1299.64
7            10096.58                  0.27               443.13
...               ...                   ...                  ...
1294         14734.45                  0.50             30714.79
1295          6785.93               7630.32               963.42
1297          5209.62               1321.96               142.89
1298          4616.88                  0.23                 0.23
1299         14834.26                  0.34               180.13
```

```
[1001 rows x 7 columns]

X=X=churn.drop(['churn','gender','customer_id','age','occupation','cit
y',

'branch_code','previous_month_end_balance','average_monthly_balance_pr
evQ',

'average_monthly_balance_prevQ2','previous_month_credit','previous_mon
th_debit',

'current_month_balance','previous_month_balance','vintage','dependents
','customer_nw_category','current_balance'],axis=1)

X=X.head(150)

X
```

```
     days_since_last_transaction  current_month_credit
current_month_debit
0                          224.0                  0.20
0.20
4                           58.0                  0.33
588.62
5                           60.0                  0.36
857.50
6                           98.0                  0.64
1299.64
7                          172.0                  0.27
443.13
..                           ...                   ...
...
190                        286.0                  0.11
45.67
191                         11.0                671.64
528.79
192                         21.0               2857.40
14285.97
193                          0.0               2870.64
3837.13
194                          3.0                286.30
286.30

[150 rows x 3 columns]
```

```
y=churn['current_balance']

y=y.head(150)
```

Standardisation of features

```
from sklearn.preprocessing import StandardScaler
scaler=StandardScaler()
X_scaled=scaler.fit_transform(X)
X_scaled

array([[ 2.36678418e+00, -1.94656136e-01, -2.33473030e-01],
       [ 6.44590373e-03, -1.94650278e-01, -1.98272849e-01],
       [ 3.48837143e-02, -1.94648926e-01, -1.82188038e-01],
       [ 5.75202115e-01, -1.94636307e-01, -1.55738550e-01],
       [ 1.62740111e+00, -1.94652982e-01, -2.06976283e-01],
       [-5.48091403e-01, -1.62463954e-01, -1.90741918e-01],
       [-8.18250603e-01,  1.16854641e-01, -1.20583834e-01],
       [-7.47156077e-01, -1.74682210e-01, -2.33452690e-01],
       [-5.33872497e-01,  1.46249482e-01,  3.59221268e-01],
       [-1.49962054e-01, -1.94650278e-01,  7.15389676e-02],
       [ 3.49007770e+00, -1.94637659e-01, -1.28912187e-01],
       [-7.88675280e-02, -1.94635405e-01, -2.33445512e-01],
       [-8.18250603e-01, -1.86070323e-01, -8.62247447e-02],
       [-7.75593887e-01, -1.81397172e-02, -2.33468842e-01],
       [ 1.62853862e-01, -1.94639912e-01, -2.29178443e-01],
       [-3.77464539e-01, -1.94651630e-01, -2.27237234e-01],
       [-4.91215781e-01, -1.91069212e-01, -1.87999065e-02],
       [-5.33872497e-01,  1.46249482e-01,  3.59221268e-01],
       [-1.49962054e-01, -1.94650278e-01,  7.15389676e-02],
       [ 3.49007770e+00, -1.94637659e-01, -1.28912187e-01],
       [-1.49962054e-01, -1.94638109e-01, -1.95464827e-01],
       [-5.33872497e-01, -1.94312271e-01, -1.82451851e-01],
       [-6.90280456e-01, -1.88208777e-01, -2.33289976e-01],
       [-6.90280456e-01, -1.91785335e-01, -2.23586925e-01],
       [-4.34340160e-01,  6.43520478e-01, -2.21975333e-01],
       [-3.06370013e-01, -1.94657939e-01, -2.10455502e-01],
       [ 9.59112558e-01, -1.94656587e-01, -1.68223302e-01],
       [-7.47156077e-01,  1.49409111e+00,  2.08228750e+00],
       [ 2.76605104e-01, -1.94645320e-01, -2.33458673e-01],
       [-6.76061550e-01, -1.78539990e-01, -2.33445512e-01],
       [ 5.60983210e-01, -1.94645771e-01, -2.33459271e-01],
       [-7.75593887e-01, -1.75580406e-01, -2.33448503e-01],
       [ 9.59112558e-01, -1.94656587e-01, -1.68223302e-01],
       [-7.47156077e-01,  1.49409111e+00,  2.08228750e+00],
       [ 1.45677424e+00, -1.94660643e-01, -2.27068538e-01],
       [-6.19185929e-01, -1.30274475e-01, -2.28799174e-01],
       [-7.18718266e-01, -4.77130260e-02,  6.40935774e-01],
       [ 5.32545399e-01, -1.94642166e-01, -1.05265337e-01],
       [-5.76529213e-01, -1.79844244e-01, -2.08543607e-01],
       [-7.75593887e-01, -1.59400714e-01, -2.12880069e-01],
       [-5.33872497e-01, -1.72696535e-01, -2.26287867e-01],
       [-8.18250603e-01, -1.51499476e-01, -2.33445512e-01],
       [-7.18718266e-01, -1.30251491e-01, -2.33443119e-01],
       [ 8.31142411e-01, -1.94640813e-01, -2.33452690e-01],
```

```
[ 2.62386199e-01, -1.94656136e-01, -2.33473030e-01],
[-6.61842645e-01, -1.79211046e-01, -2.33481405e-01],
[-5.62310308e-01, -1.51955109e-01, -2.33444914e-01],
[-4.20121255e-01, -1.92814677e-01,  5.59154368e-01],
[-5.33872497e-01, -1.27109383e-01, -1.48010208e-01],
[-4.62777971e-01, -1.91699707e-01, -2.03939742e-01],
[-4.62777971e-01, -1.67401101e-01, -1.56532980e-01],
[ 1.64162001e+00, -1.94647123e-01, -2.33461065e-01],
[-7.47156077e-01,  7.44280743e-02,  8.92706652e-02],
[-1.64180960e-01, -1.94648475e-01, -4.25729796e-02],
[-7.18718266e-01,  2.33057644e-01,  6.05731406e-01],
[-4.62777971e-01, -1.88199763e-01, -2.29176050e-01],
[-8.18250603e-01,  2.21877644e+00,  8.35184632e-01],
[-6.47623740e-01, -1.81207987e-01, -1.62230980e-01],
[-7.32937171e-01,  1.16512578e-01, -2.86967792e-02],
[-7.47156077e-01,  7.66404391e-02,  4.28545476e-02],
[-5.62310308e-01, -1.88221846e-01, -2.16386208e-01],
[ 1.14395833e+00, -1.94647123e-01, -2.33461065e-01],
[-5.33872497e-01, -1.83729065e-01, -1.38105558e-01],
[ 9.73331463e-01, -1.94651630e-01, -2.33467048e-01],
[-7.32937171e-01, -1.20721062e-01, -2.33447306e-01],
[-5.33872497e-01, -1.73394631e-01, -2.29179639e-01],
[-1.21524244e-01, -1.94657939e-01, -2.26553474e-01],
[ 1.62853862e-01, -1.94664699e-01, -2.33398851e-01],
[-1.78399865e-01, -1.94651630e-01, -2.01095827e-01],
[ 2.48167294e-01, -1.94643968e-01, -2.33456878e-01],
[ 2.29568966e+00, -1.94657488e-01, -2.11566986e-01],
[ 1.77072767e-01, -1.94652982e-01, -2.25777589e-01],
[-7.32937171e-01, -6.93724777e-02, -2.26122759e-01],
[-3.91683444e-01, -1.94649827e-01, -6.13575359e-02],
[ 1.74115235e+00, -1.94658840e-01, -1.48017386e-01],
[-2.63713297e-01, -1.94647574e-01, -2.21985503e-01],
[-8.18250603e-01,  3.42930013e-01, -2.56075958e-02],
[-8.18250603e-01, -1.69657632e-01, -1.86669269e-01],
[-4.20121255e-01,  1.13682437e-02,  2.47558889e+00],
[-7.88675280e-02, -1.94638109e-01,  4.55243821e-02],
[-4.20121255e-01,  3.59282313e-01, -1.86861894e-01],
[-8.18250603e-01,  2.20614501e-01, -2.15177215e-01],
[ 1.85490359e+00, -1.94657488e-01, -2.33474824e-01],
[ 5.32545399e-01, -1.94639912e-01, -2.25771607e-01],
[ 3.33480725e-01, -1.94635405e-01, -2.33445512e-01],
[-5.76529213e-01, -1.94049528e-01, -1.41475903e-01],
[-7.75593887e-01, -1.92799805e-01, -1.06972045e-01],
[-4.34340160e-01, -1.25042136e-01, -3.45862081e-02],
[ 3.40476427e+00, -1.94664699e-01, -2.33484396e-01],
[ 6.03639926e-01, -1.94639461e-01, -1.90720980e-01],
[-7.75593887e-01, -1.18932332e-01,  3.12238042e-01],
[-7.61374982e-01, -1.93305463e-01, -1.57566696e-01],
[ 7.75404302e-02, -1.94643968e-01, -2.01392542e-01],
[ 1.65583892e+00, -1.94649827e-01, -2.33464655e-01],
```

```
[-8.18250603e-01, -8.57216231e-02, -1.46857447e-01],
[-1.21524244e-01, -1.94660193e-01, -2.07840105e-01],
[ 5.46764305e-01, -1.94661995e-01, -2.33480807e-01],
[-6.19185929e-01, -1.89165560e-01, -2.18894525e-01],
[-3.91683444e-01, -1.94646672e-01, -2.33460467e-01],
[-7.18718266e-01, -9.54471947e-02,  1.50227298e+00],
[-4.48559066e-01,  9.50744081e-02, -6.25396092e-02],
[-7.32937171e-01, -1.47880554e-01, -2.31708893e-01],
[ 6.32077737e-01, -1.94655686e-01, -2.33472432e-01],
[-7.75593887e-01, -8.52907776e-02, -1.35980698e-01],
[-4.20121255e-01, -1.93680875e-01, -2.27984405e-01],
[-2.49494391e-01, -1.94657488e-01, -1.82199404e-01],
[ 1.51364986e+00, -1.94640813e-01, -2.33452690e-01],
[ 7.45828979e-01, -1.94656136e-01, -2.33473030e-01],
[-6.90280456e-01, -1.42389527e-01, -1.54141914e-01],
[-6.76061550e-01, -1.91870513e-01, -2.26631840e-01],
[-8.18250603e-01,  1.23456132e-01, -2.17793210e-01],
[-1.64180960e-01, -1.94661094e-01, -2.33479610e-01],
[-6.19185929e-01, -1.86292956e-01, -1.90025256e-01],
[ 2.46631652e+00, -1.94657939e-01, -1.96420177e-01],
[-4.34340160e-01, -1.48952070e-03, -2.33446708e-01],
[-7.75593887e-01, -9.80795887e-02, -2.33468842e-01],
[ 4.18794157e-01, -1.94637659e-01, -2.30761320e-01],
[-3.20588918e-01, -1.94651179e-01, -1.39033390e-01],
[ 4.04575252e-01, -1.94634053e-01, -2.33443717e-01],
[-8.18250603e-01,  8.62096263e-02, -2.23031183e-01],
[-1.35743149e-01, -1.94641264e-01, -2.12506184e-01],
[ 1.01598818e+00, -1.94642166e-01, -2.33454485e-01],
[ 4.91026196e-02, -1.94664699e-01, -2.33484396e-01],
[ 2.09662498e+00, -1.94639912e-01, -2.18923837e-01],
[-7.75593887e-01, -1.62470263e-01, -2.33479610e-01],
[ 2.83600806e+00, -1.94638560e-01, -2.33449699e-01],
[-5.19653592e-01, -1.81911492e-01, -1.70770503e-01],
[-7.32937171e-01, -1.94558791e-01, -1.94763719e-01],
[-7.32937171e-01,  3.47511973e+00, -1.88099003e-01],
[ 1.05864490e+00, -1.94652080e-01,  1.24911730e-01],
[ 2.15350060e+00, -1.94639912e-01, -2.33451494e-01],
[-6.46486227e-02, -1.94640813e-01, -2.12262711e-01],
[-4.76996876e-01, -1.27179238e-01, -2.15620493e-01],
[-4.76996876e-01, -7.87767178e-02, -2.32013385e-01],
[ 2.76605104e-01, -1.94642166e-01, -2.33454485e-01],
[ 5.32545399e-01, -1.94660643e-01, -2.33479012e-01],
[-7.75593887e-01, -1.64154437e-01, -2.01213077e-01],
[-7.18718266e-01, -1.81779894e-01, -1.58129018e-01],
[ 1.10130161e+00, -1.94642166e-01,  1.72477617e-01],
[-5.62310308e-01, -1.91272016e-01, -1.88435798e-01],
[-3.77464539e-01, -1.94633603e-01,  6.37868126e-01],
[-4.62777971e-01, -1.86293407e-01, -2.33482601e-01],
[-5.19653592e-01, -5.34415589e-02,  2.25441201e-01],
[ 1.30036629e+00, -1.94660193e-01, -2.33478414e-01],
```

```
       [-6.90280456e-01,  1.11140920e+01,  1.11625516e+01],
       [ 3.24835631e+00, -1.94660193e-01, -2.30752945e-01],
       [-6.61842645e-01, -1.64395999e-01, -2.01851971e-01],
       [-5.19653592e-01, -6.58892088e-02,  6.21123483e-01],
       [-8.18250603e-01, -6.52925148e-02, -3.94203495e-03],
       [-7.75593887e-01, -1.81762318e-01, -2.16358092e-01]])
```

Splitting to train and test

```python
from sklearn.model_selection import train_test_split

X_train,X_test,y_train,y_test=train_test_split(X_scaled,y,
test_size=0.2,random_state=10)
X_train.shape,X_test.shape,y_train.shape,y_test.shape

((120, 3), (30, 3), (120,), (30,))

from sklearn.linear_model import LinearRegression

lr =LinearRegression()

lr.fit(X_train,y_train)

LinearRegression()
```

Model performance

```python
from sklearn.metrics import r2_score,mean_squared_error

r2_train=r2_score(y_train,lr.predict(X_train))
r2_test=r2_score(y_test,lr.predict(X_test))

mse_train=mean_squared_error(y_train,lr.predict(X_train))
mse_test=mean_squared_error(y_test,lr.predict(X_test))

print('R2 score- training:',r2_train)
print('R2 score- testing:',r2_test)

print('MSE- training:',mse_train)
print('MSE- testing:',mse_test)


R2 score- training: 0.17967307485814676
R2 score- testing: -0.02646793049098295
MSE- training: 45537487.38102582
MSE- testing: 38801065.057938494
```

Remark:

There is overfitting

LR using k fold cross validation

```
from sklearn.model_selection import cross_val_score,cross_val_predict
lr=LinearRegression()
cv_score=cross_val_score(lr,X_train,y_train,cv=5)
print('CV_Score:',cv_score)

CV_Score: [ 0.00591321 -0.81918986  0.22513681  0.00472868 -
0.11283417]

print('CV_Score mean:', cv_score.mean())

CV_Score mean: -0.1392490653998443

# cv=4
lr=LinearRegression()
cv_score=cross_val_score(lr,X_train,y_train,cv=4)
print('CV_Score:',cv_score)
print('CV_Score mean:', cv_score.mean())

CV_Score: [ 0.04451588  0.27405206 -0.05009663 -0.14642979]
CV_Score mean: 0.030510380670514925

# cv=3
lr=LinearRegression()
cv_score=cross_val_score(lr,X_train,y_train,cv=3)
print('CV_Score:',cv_score)
print('CV_Score mean:', cv_score.mean())

CV_Score: [ 0.05127783  0.12149084 -0.03279811]
CV_Score mean: 0.04665685327111446

# cv=10
lr=LinearRegression()
cv_score=cross_val_score(lr,X_train,y_train,cv=10)
print('CV_Score:',cv_score)
print('CV_Score mean:', cv_score.mean())

CV_Score: [ 0.058213   -0.07911335 -1.15734997 -0.45078844  0.40435663
-0.05349947
 -0.43866065 -0.09648437 -0.04697697 -0.13699457]
CV_Score mean: -0.1997298162066931
```

n= # of the training data

k fold validation

k=1, usual training

k=n, Leave One Out Cross Validation

k=2,3,4,....., K- fold cross validation

```
# k=3 is the chosen value of cv

y_pred=cross_val_predict(lr, X_test,y_test,cv=3)
y_pred

array([ 5990.29502299,   8167.99863237,   3614.89340666,   7928.08312767,
        8125.23529006,   8332.9751722 ,   8011.01468443,   7858.04169012,
        8355.73597874,   8373.18601123,   8248.50527344,   3415.94097617,
        6305.32806222,   7754.9079969 ,   1952.51397255,   8542.71368569,
        7978.41672831,   8660.63792429,   8364.06075456,   8773.3912858 ,
        7260.03753669,  11416.22119477,   6165.84239321,  64598.08484351,
        7208.43799154,   5614.17792405,   6482.94731966,  -5554.08260476,
       37440.39329568,   4213.79479275])

y_test

113        909.84
146       4689.26
13        4548.48
119       5945.69
66        5065.29
79        2335.05
94       20741.22
87        3144.56
53       21252.86
73        2662.21
86       12913.08
186       1433.48
70         431.67
4          927.72
23        4548.48
147       3725.73
111       9572.43
52        1443.95
26       20273.43
48        3854.44
136       1072.56
171       7154.35
164      14901.34
30         972.57
80        9931.34
5        15202.20
125       5899.01
117       1905.79
99       10152.97
152       5718.20
Name: current_balance, dtype: float64
```

Cross validation is a general tool, which can applied on any ML technique

Regularisation - LR

Lasso

Ridge

Elastic Net

Lasso

```
from sklearn.linear_model import Lasso

lasso=Lasso(alpha=0.1)
lasso.fit(X_train,y_train)

r2_lasso_train=r2_score(y_train,lasso.predict(X_train))
r2_lasso_test=r2_score(y_test,lasso.predict(X_test))

print(' R2 score: Lasso - Train',r2_lasso_train)
print(' R2 score: Lasso - Test',r2_lasso_test)

mse_lasso_train=mean_squared_error(y_train,lasso.predict(X_train))
mse_lasso_test=mean_squared_error(y_test,lasso.predict(X_test))

print(' MSE: Lasso - Train',mse_lasso_train)
print(' MSE: Lasso - Test',mse_lasso_test)
```

```
 R2 score: Lasso - Train 0.1796730716296624
 R2 score: Lasso - Test -0.026464676900515904
 MSE: Lasso - Train 45537487.56024348
 MSE: Lasso - Test 38800942.07038902
```

Ridge

```
from sklearn.linear_model import Ridge

ridge=Ridge(alpha=0.1)
ridge.fit(X_train,y_train)

r2_ridge_train=r2_score(y_train,ridge.predict(X_train))
r2_ridge_test=r2_score(y_test,ridge.predict(X_test))

print(' R2 score: ridge - Train',r2_ridge_train)
print(' R2 score: ridge - Test',r2_ridge_test)

mse_ridge_train=mean_squared_error(y_train,ridge.predict(X_train))
mse_ridge_test=mean_squared_error(y_test,ridge.predict(X_test))

print(' MSE: ridge - Train',mse_ridge_train)
print(' MSE: ridge - Test',mse_ridge_test)
```

```
 R2 score: ridge - Train 0.17966473778724756
 R2 score: ridge - Test -0.026152016593580463
 MSE: ridge - Train 45537950.18341501
 MSE: ridge - Test 38789123.33494676

from sklearn.linear_model import Ridge

ridge=Ridge(alpha=0.5)
ridge.fit(X_train,y_train)

r2_ridge_train=r2_score(y_train,ridge.predict(X_train))
r2_ridge_test=r2_score(y_test,ridge.predict(X_test))

print(' R2 score: ridge - Train',r2_ridge_train)
print(' R2 score: ridge - Test',r2_ridge_test)

mse_ridge_train=mean_squared_error(y_train,ridge.predict(X_train))
mse_ridge_test=mean_squared_error(y_test,ridge.predict(X_test))

print(' MSE: ridge - Train',mse_ridge_train)
print(' MSE: ridge - Test',mse_ridge_test)

 R2 score: ridge - Train 0.17947572985910698
 R2 score: ridge - Test -0.02497231369715247
 MSE: ridge - Train 45548442.27611467
 MSE: ridge - Test 38744529.90199709

from sklearn.linear_model import Ridge

ridge=Ridge(alpha=0.9)
ridge.fit(X_train,y_train)

r2_ridge_train=r2_score(y_train,ridge.predict(X_train))
r2_ridge_test=r2_score(y_test,ridge.predict(X_test))

print(' R2 score: ridge - Train',r2_ridge_train)
print(' R2 score: ridge - Test',r2_ridge_test)

mse_ridge_train=mean_squared_error(y_train,ridge.predict(X_train))
mse_ridge_test=mean_squared_error(y_test,ridge.predict(X_test))

print(' MSE: ridge - Train',mse_ridge_train)
print(' MSE: ridge - Test',mse_ridge_test)

 R2 score: ridge - Train 0.17906679218703514
 R2 score: ridge - Test -0.02391529918585311
 MSE: ridge - Train 45571142.97447146
 MSE: ridge - Test 38704574.159005195
```

```python
from sklearn.linear_model import Ridge

ridge=Ridge(alpha=0.01)
ridge.fit(X_train,y_train)

r2_ridge_train=r2_score(y_train,ridge.predict(X_train))
r2_ridge_test=r2_score(y_test,ridge.predict(X_test))

print(' R2 score: ridge - Train',r2_ridge_train)
print(' R2 score: ridge - Test',r2_ridge_test)

mse_ridge_train=mean_squared_error(y_train,ridge.predict(X_train))
mse_ridge_test=mean_squared_error(y_test,ridge.predict(X_test))

print(' MSE: ridge - Train',mse_ridge_train)
print(' MSE: ridge - Test',mse_ridge_test)
```

```
 R2 score: ridge - Train 0.17967299043865448
 R2 score: ridge - Test -0.026435942019107372
 MSE: ridge - Train 45537492.06726913
 MSE: ridge - Test 38799855.875711285
```

```python
from sklearn.linear_model import Ridge

ridge=Ridge(alpha=0.001)
ridge.fit(X_train,y_train)

r2_ridge_train=r2_score(y_train,ridge.predict(X_train))
r2_ridge_test=r2_score(y_test,ridge.predict(X_test))

print(' R2 score: ridge - Train',r2_ridge_train)
print(' R2 score: ridge - Test',r2_ridge_test)

mse_ridge_train=mean_squared_error(y_train,ridge.predict(X_train))
mse_ridge_test=mean_squared_error(y_test,ridge.predict(X_test))

print(' MSE: ridge - Train',mse_ridge_train)
print(' MSE: ridge - Test',mse_ridge_test)
```

```
 R2 score: ridge - Train 0.17967307401289223
 R2 score: ridge - Test -0.026464727632185436
 MSE: ridge - Train 45537487.427947074
 MSE: ridge - Test 38800943.98807466
```

```python
from sklearn.linear_model import Ridge

ridge=Ridge(alpha=0.0)
ridge.fit(X_train,y_train)

r2_ridge_train=r2_score(y_train,ridge.predict(X_train))
```

```python
r2_ridge_test=r2_score(y_test,ridge.predict(X_test))

print(' R2 score: ridge - Train',r2_ridge_train)
print(' R2 score: ridge - Test',r2_ridge_test)

mse_ridge_train=mean_squared_error(y_train,ridge.predict(X_train))
mse_ridge_test=mean_squared_error(y_test,ridge.predict(X_test))

print(' MSE: ridge - Train',mse_ridge_train)
print(' MSE: ridge - Test',mse_ridge_test)
```

```
 R2 score: ridge - Train 0.17967307485814676
 R2 score: ridge - Test -0.026467930490983393
 MSE: ridge - Train 45537487.38102582
 MSE: ridge - Test 38801065.05793851
```

Elastic Net

```python
from sklearn.linear_model import ElasticNet

enet=ElasticNet()
enet.fit(X_train,y_train)

r2_enet_train=r2_score(y_train,enet.predict(X_train))
r2_enet_test=r2_score(y_test,enet.predict(X_test))

print(' R2 score: enet - Train',r2_enet_train)
print(' R2 score: enet - Test',r2_enet_test)

mse_enet_train=mean_squared_error(y_train,enet.predict(X_train))
mse_enet_test=mean_squared_error(y_test,enet.predict(X_test))

print(' MSE: enet - Train',mse_enet_train)
print(' MSE: enet - Test',mse_enet_test)
```

```
 R2 score: enet - Train 0.06602328236730137
 R2 score: enet - Test -0.021578456717382455
 MSE: enet - Train 51846345.26779231
 MSE: enet - Test 38616240.19945722
```

Ensemble Learning

Agenda:

Ensemble learning

What are the different types?

      Bagging

      Boosting

      Stacking

Random Forest - bagging technique

Introduce the Diabetes.csv for performing RF

Identify the best parameters using GridSearchCV

Build the best RF model

Important Features based on the model.

Conclude

Accessing the data

```python
import numpy as np
import pandas as pd
import seaborn as sns
import matplotlib.pyplot as plt

# Data set

churn=pd.read_csv('churn_prediction1.csv')

churn.isnull().sum()
```

```
customer_id                     0
vintage                         0
age                             0
gender                         25
dependents                    111
occupation                      7
city                           42
customer_nw_category            0
branch_code                     0
days_since_last_transaction   151
current_balance                 0
previous_month_end_balance      0
```

```
average_monthly_balance_prevQ        0
average_monthly_balance_prevQ2       0
current_month_credit                 0
previous_month_credit                0
current_month_debit                  0
previous_month_debit                 0
current_month_balance                0
previous_month_balance               0
churn                                0
dtype: int64
```

```python
churn.dropna(inplace=True)
```

```python
churn.isnull().sum()
```

```
customer_id                          0
vintage                              0
age                                  0
gender                               0
dependents                           0
occupation                           0
city                                 0
customer_nw_category                 0
branch_code                          0
days_since_last_transaction          0
current_balance                      0
previous_month_end_balance           0
average_monthly_balance_prevQ        0
average_monthly_balance_prevQ2       0
current_month_credit                 0
previous_month_credit                0
current_month_debit                  0
previous_month_debit                 0
current_month_balance                0
previous_month_balance               0
churn                                0
dtype: int64
```

```python
X=churn.drop(['churn','gender','customer_id','age','occupation','city'
,

'branch_code','previous_month_end_balance','average_monthly_balance_pr
evQ',

'average_monthly_balance_prevQ2','previous_month_credit','previous_mon
th_debit',

'current_month_balance','previous_month_balance'],axis=1)
```

```python
X
```

```
       vintage  dependents  customer_nw_category
days_since_last_transaction  \
0         3135         0.0                     2
224.0
4         2531         2.0                     3
58.0
5          263         0.0                     2
60.0
6         5922         0.0                     1
98.0
7         1145         0.0                     2
172.0
...        ...         ...                   ...
...
1294      1921         0.0                     2
87.0
1295       766         0.0                     2
27.0
1297      2993         4.0                     3
0.0
1298      1766         0.0                     1
339.0
1299      7306         0.0                     1
62.0

      current_balance  current_month_credit  current_month_debit
0             1458.71                  0.20                 0.20
4              927.72                  0.33               588.62
5            15202.20                  0.36               857.50
6             7006.93                  0.64              1299.64
7            10096.58                  0.27               443.13
...               ...                   ...                  ...
1294         14734.45                  0.50             30714.79
1295          6785.93               7630.32               963.42
1297          5209.62               1321.96               142.89
1298          4616.88                  0.23                 0.23
1299         14834.26                  0.34               180.13

[1001 rows x 7 columns]

y=churn['churn']

y

0        0
4        1
5        0
6        0
7        0
        ..
1294     0
```

```
1295     1
1297     0
1298     0
1299     0
Name: churn, Length: 1001, dtype: int64
```

Standardisation

```python
from sklearn.preprocessing import StandardScaler

scaler=StandardScaler()
X_scaled=scaler.fit_transform(X)
X_scaled
```

```
array([[ 0.26881447, -0.45186224, -0.29729134, ..., -0.36357065,
        -0.18176148, -0.20549922],
       [-0.07821333,  1.62297309,  1.15436051, ..., -0.39958594,
        -0.18175502, -0.1698577 ],
       [-1.38129121, -0.45186224, -0.29729134, ...,  0.56860465,
        -0.18175352, -0.15357122],
       ...,
       [ 0.18722847,  3.69780842,  1.15436051, ..., -0.10915888,
        -0.116036  , -0.19685627],
       [-0.51774357, -0.45186224, -1.74894318, ..., -0.14936246,
        -0.18175999, -0.2054974 ],
       [ 2.66525974, -0.45186224, -1.74894318, ...,  0.54364851,
        -0.18175452, -0.19460058]])
```

Splitting the data to train and test

```python
from sklearn.model_selection import train_test_split

X_train,X_test,y_train,y_test =
train_test_split(X_scaled,y,test_size=0.2, random_state=100)

X_train.shape,X_test.shape,y_train.shape,y_test.shape
```

```
((800, 7), (201, 7), (800,), (201,))
```

Building the model- Random Forest Classifier

```python
from sklearn.ensemble import RandomForestClassifier

rfc=RandomForestClassifier(random_state=100)

rfc.fit(X_train,y_train)
```

```
RandomForestClassifier(random_state=100)
```

Model performance

```python
from sklearn.metrics import classification_report, confusion_matrix

cm=confusion_matrix(y_test,rfc.predict(X_test))
```

```
report=classification_report(y_test,rfc.predict(X_test))

print('CM:\n',cm)
print('Report:\n',report)

CM:
 [[153  10]
 [ 25  13]]
Report:
               precision    recall  f1-score   support

           0       0.86      0.94      0.90       163
           1       0.57      0.34      0.43        38

    accuracy                           0.83       201
   macro avg       0.71      0.64      0.66       201
weighted avg       0.80      0.83      0.81       201
```

Hyper parameter tuning using GridSearchCV

```
from sklearn.model_selection import GridSearchCV

rfc_gs=GridSearchCV(rfc,{'n_estimators':range(75,125),
                        'criterion':['gini','entropy']})

rfc_gs.fit(X_train,y_train)

GridSearchCV(estimator=RandomForestClassifier(random_state=100),
            param_grid={'criterion': ['gini', 'entropy'],
                        'n_estimators': range(75, 125)})
```

Best parameters

```
rfc_gs.best_params_

{'criterion': 'entropy', 'n_estimators': 77}
```

Building a revised RF model

```
rfc_new=RandomForestClassifier(n_estimators=122,
                            criterion='entropy',random_state=10)

rfc_new.fit(X_train,y_train)

RandomForestClassifier(criterion='entropy', n_estimators=122,
random_state=10)

# Perfromance

cm=confusion_matrix(y_test,rfc_new.predict(X_test))
report=classification_report(y_test,rfc_new.predict(X_test))

print('CM:\n',cm)
```

```
print('Report:\n',report)
score=roc_auc_score(pred_df['Actual Class'],
                    pred_df['Predicted Class'])
score
```

```
CM:
 [[153  10]
 [ 27  11]]
Report:
               precision    recall  f1-score   support

           0       0.85      0.94      0.89       163
           1       0.52      0.29      0.37        38

    accuracy                           0.82       201
   macro avg       0.69      0.61      0.63       201
weighted avg       0.79      0.82      0.79       201


-------------------------------------------------------------------
-----
NameError                                 Traceback (most recent call
last)
Input In [28], in <cell line: 8>()
      6 print('CM:\n',cm)
      7 print('Report:\n',report)
----> 8 score=roc_auc_score(pred_df['Actual Class'],
      9                     pred_df['Predicted Class'])
     10 score

NameError: name 'roc_auc_score' is not defined
```

Important features

```
rfc_new.feature_importances_
```

```
array([0.17194046, 0.0258198 , 0.03786422, 0.12733436, 0.32549956,
       0.14419823, 0.16734337])
```

```
# Creating a DF
```

```
df=pd.DataFrame({'Feature':X.columns,'Feature
Imp':rfc_new.feature_importances_})
df
```

```
                        Feature  Feature Imp
0                        vintage     0.171940
1                     dependents     0.025820
2           customer_nw_category     0.037864
3     days_since_last_transaction     0.127334
4                current_balance     0.325500
```

```
5            current_month_credit       0.144198
6             current_month_debit       0.167343

df=df.sort_values(['Feature Imp'],ascending=False)
df
```

	Feature	Feature Imp
4	current_balance	0.325500
0	vintage	0.171940
6	current_month_debit	0.167343
5	current_month_credit	0.144198
3	days_since_last_transaction	0.127334
2	customer_nw_category	0.037864
1	dependents	0.025820

```
df=df.sort_values(['Feature Imp'],ascending=False)
df
```

	Feature	Feature Imp
4	current_balance	0.325500
0	vintage	0.171940
6	current_month_debit	0.167343
5	current_month_credit	0.144198
3	days_since_last_transaction	0.127334
2	customer_nw_category	0.037864
1	dependents	0.025820

```
sns.barplot(x=df['Feature Imp'],y=df['Feature'],data=df);
```
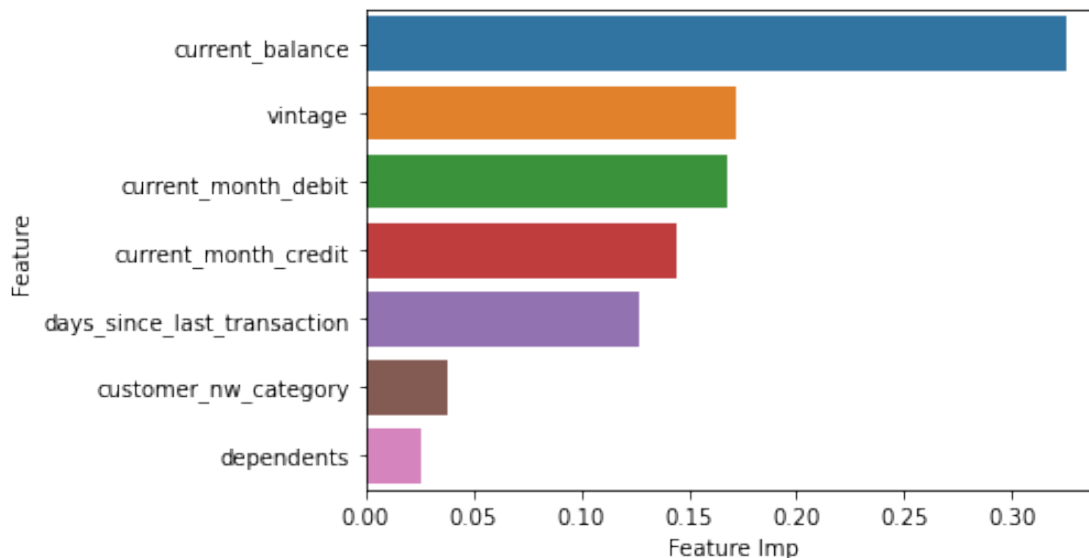
Boosting

Boosting

Different types:

AdaBoost

GradientBoost

XGBoost

Perform boosting on diabetes dataset

Tune the hyper parameter and get better models

Compare the models.

Adaboost

```python
import numpy as np
import pandas as pd
import seaborn as sns
import matplotlib.pyplot as plt

# Data set

churn=pd.read_csv('churn_prediction1.csv')

churn.isnull().sum()
```

```
customer_id                        0
vintage                            0
age                                0
gender                            25
dependents                       111
occupation                         7
city                              42
customer_nw_category               0
branch_code                        0
days_since_last_transaction      151
current_balance                    0
previous_month_end_balance         0
average_monthly_balance_prevQ      0
average_monthly_balance_prevQ2     0
current_month_credit               0
previous_month_credit              0
current_month_debit                0
previous_month_debit               0
current_month_balance              0
```

```
previous_month_balance                  0
churn                                   0
dtype: int64

churn.dropna(inplace=True)

churn.isnull().sum()

customer_id                             0
vintage                                 0
age                                     0
gender                                  0
dependents                              0
occupation                              0
city                                    0
customer_nw_category                    0
branch_code                             0
days_since_last_transaction             0
current_balance                         0
previous_month_end_balance              0
average_monthly_balance_prevQ           0
average_monthly_balance_prevQ2          0
current_month_credit                    0
previous_month_credit                   0
current_month_debit                     0
previous_month_debit                    0
current_month_balance                   0
previous_month_balance                  0
churn                                   0
dtype: int64

X=churn.drop(['churn','gender','customer_id','age','occupation','city'
,

'branch_code','previous_month_end_balance','average_monthly_balance_pr
evQ',

'average_monthly_balance_prevQ2','previous_month_credit','previous_mon
th_debit',

'current_month_balance','previous_month_balance'],axis=1)

X
```

```
      vintage  dependents  customer_nw_category
days_since_last_transaction  \
0        3135         0.0                     2
224.0
4        2531         2.0                     3
58.0
5         263         0.0                     2
```

```
60.0
6          5922            0.0                         1
98.0
7          1145            0.0                         2
172.0
...         ...            ...                        ...
...
1294       1921            0.0                         2
87.0
1295        766            0.0                         2
27.0
1297       2993            4.0                         3
0.0
1298       1766            0.0                         1
339.0
1299       7306            0.0                         1
62.0

      current_balance  current_month_credit  current_month_debit
0            1458.71                  0.20                 0.20
4             927.72                  0.33               588.62
5           15202.20                  0.36               857.50
6            7006.93                  0.64              1299.64
7           10096.58                  0.27               443.13
...              ...                   ...                  ...
1294        14734.45                  0.50             30714.79
1295         6785.93               7630.32               963.42
1297         5209.62               1321.96               142.89
1298         4616.88                  0.23                 0.23
1299        14834.26                  0.34               180.13

[1001 rows x 7 columns]

y =churn['churn']

y

0        0
4        1
5        0
6        0
7        0
        ..
1294     0
1295     1
1297     0
1298     0
1299     0
Name: churn, Length: 1001, dtype: int64
```

```python
from sklearn.preprocessing import StandardScaler
scaler=StandardScaler()
X_scaled=scaler.fit_transform(X)
X_scaled
```

```
array([[ 0.26881447, -0.45186224, -0.29729134, ..., -0.36357065,
        -0.18176148, -0.20549922],
       [-0.07821333,  1.62297309,  1.15436051, ..., -0.39958594,
        -0.18175502, -0.1698577 ],
       [-1.38129121, -0.45186224, -0.29729134, ...,  0.56860465,
        -0.18175352, -0.15357122],
       ...,
       [ 0.18722847,  3.69780842,  1.15436051, ..., -0.10915888,
        -0.116036  , -0.19685627],
       [-0.51774357, -0.45186224, -1.74894318, ..., -0.14936246,
        -0.18175999, -0.2054974 ],
       [ 2.66525974, -0.45186224, -1.74894318, ...,  0.54364851,
        -0.18175452, -0.19460058]])
```

```python
from sklearn.model_selection import train_test_split
X_train,X_test,y_train,y_test=train_test_split(X_scaled,y,test_size=0.
2,random_state=10)
X_train.shape,X_test.shape,y_train.shape,y_test.shape
```

```
((800, 7), (201, 7), (800,), (201,))
```

Building- AdaBoostCalssifier

```python
from sklearn.ensemble import AdaBoostClassifier
abc=AdaBoostClassifier(random_state=10)
abc.fit(X_train,y_train)
```

```
AdaBoostClassifier(random_state=10)
```

```python
from sklearn.metrics import classification_report
report=classification_report(y_test,abc.predict(X_test))
print('Report:\n',report)
```

```
Report:
               precision    recall  f1-score   support

           0       0.86      0.97      0.91       164
           1       0.69      0.30      0.42        37

    accuracy                           0.85       201
   macro avg       0.77      0.63      0.66       201
weighted avg       0.83      0.85      0.82       201
```

Improving the model using hyper parameter tuning

```python
from sklearn.model_selection import GridSearchCV

abc_gs=GridSearchCV(abc,{'n_estimators':range(25,75),
                         'learning_rate':[0,0.25,0.5,0.75,1]})

abc_gs.fit(X_train, y_train)
```

```
C:\Users\hp\anaconda3\lib\site-packages\sklearn\model_selection\
_validation.py:372: FitFailedWarning:
250 fits failed out of a total of 1250.
The score on these train-test partitions for these parameters will be
set to nan.
If these failures are not expected, you can try to debug them by
setting error_score='raise'.

Below are more details about the failures:
--------------------------------------------------------------------
----------
250 fits failed with the following error:
Traceback (most recent call last):
  File "C:\Users\hp\anaconda3\lib\site-packages\sklearn\
model_selection\_validation.py", line 680, in _fit_and_score
    estimator.fit(X_train, y_train, **fit_params)
  File "C:\Users\hp\anaconda3\lib\site-packages\sklearn\ensemble\
_weight_boosting.py", line 486, in fit
    return super().fit(X, y, sample_weight)
  File "C:\Users\hp\anaconda3\lib\site-packages\sklearn\ensemble\
_weight_boosting.py", line 114, in fit
    raise ValueError("learning_rate must be greater than zero")
ValueError: learning_rate must be greater than zero

  warnings.warn(some_fits_failed_message, FitFailedWarning)
C:\Users\hp\anaconda3\lib\site-packages\sklearn\model_selection\
_search.py:969: UserWarning: One or more of the test scores are non-
finite: [    nan     nan     nan     nan     nan     nan     nan
nan     nan
     nan     nan     nan     nan     nan     nan     nan     nan
nan
     nan     nan     nan     nan     nan     nan     nan     nan
nan
     nan     nan     nan     nan     nan     nan     nan     nan
nan
     nan     nan     nan     nan     nan     nan     nan     nan
nan
     nan     nan     nan     nan     nan 0.8225  0.8225  0.8225
0.8225
 0.82125 0.8225  0.8225  0.82375 0.82375 0.82125 0.82    0.82
0.81875
 0.81875 0.81875 0.82125 0.81875 0.82    0.81875 0.82    0.82
```

```
0.8175
 0.81875 0.81875 0.82    0.81875 0.8175  0.82    0.81875 0.81875
0.81875
 0.815   0.81875 0.82    0.82    0.82    0.81875 0.8175  0.81375
0.81625
 0.81625 0.81625 0.81625 0.81875 0.81875 0.81875 0.8175  0.8175
0.8175
 0.8175  0.8175  0.8175  0.81875 0.81875 0.82    0.81875 0.8225
0.82125
 0.8225  0.8175  0.81875 0.8225  0.8175  0.8175  0.81875 0.8175
0.81875
 0.82125 0.81875 0.82    0.82125 0.825   0.825   0.82375 0.82
0.82125
 0.82125 0.82    0.8225  0.81875 0.8225  0.8175  0.82    0.81875
0.81875
 0.81625 0.81875 0.81875 0.8175  0.82125 0.8175  0.8175  0.8175
0.81875
 0.8175  0.81625 0.8175  0.8175  0.8175  0.81625 0.81875 0.82
0.8175
 0.81625 0.81625 0.8175  0.81875 0.81625 0.8175  0.82125 0.81875 0.82
 0.81875 0.8175  0.815   0.815   0.81625 0.81625 0.8175  0.81375 0.815
 0.81625 0.81625 0.82    0.81875 0.81875 0.82125 0.82125 0.8175
0.81875
 0.8175  0.81875 0.82    0.82125 0.82    0.82    0.82    0.815
0.8175
 0.8125  0.815   0.81375 0.81375 0.8175  0.8175  0.8175  0.81625 0.815
 0.8175  0.82    0.815   0.815   0.81375 0.81625 0.81625 0.81625
0.82125
 0.8175  0.8175  0.82125 0.82125 0.81625 0.815   0.81125 0.81625
0.81625
 0.81625 0.81625 0.815   0.815   0.815   0.81625 0.81375 0.815   0.815
 0.81375 0.815   0.815   0.8175  0.815   0.81625 0.81625 0.8125
0.81625
 0.81625 0.815   0.81625 0.81375 0.81375 0.815   0.81625 0.81625
0.8125
 0.81125 0.81125 0.81125 0.81125 0.81125 0.80625 0.81   ]
  warnings.warn(

GridSearchCV(estimator=AdaBoostClassifier(random_state=10),
             param_grid={'learning_rate': [0, 0.25, 0.5, 0.75, 1],
                         'n_estimators': range(25, 75)})

abc_gs.best_params_

{'learning_rate': 0.5, 'n_estimators': 46}
```

Building the best model

```
ada_best=AdaBoostClassifier(learning_rate=0.25,n_estimators=53,random_
state=10)
ada_best.fit(X_train,y_train)
```

```
AdaBoostClassifier(learning_rate=0.25, n_estimators=53,
random_state=10)

report=classification_report(y_test,ada_best.predict(X_test))

print('Report:\n',report)

Report:
               precision    recall  f1-score   support

           0       0.86      0.97      0.91       164
           1       0.69      0.30      0.42        37

    accuracy                           0.85       201
   macro avg       0.77      0.63      0.66       201
weighted avg       0.83      0.85      0.82       201
```

Building - Gradient Boosting Classifier

```
from sklearn.ensemble import GradientBoostingClassifier

gbc=GradientBoostingClassifier(random_state=10)
gbc.fit(X_train,y_train)

GradientBoostingClassifier(random_state=10)

report=classification_report(y_test,gbc.predict(X_test))

print('Report:\n',report)

Report:
               precision    recall  f1-score   support

           0       0.85      0.97      0.91       164
           1       0.67      0.27      0.38        37

    accuracy                           0.84       201
   macro avg       0.76      0.62      0.65       201
weighted avg       0.82      0.84      0.81       201
```

```
# Hyper parameter tuning

gbc_gs=GridSearchCV(gbc,{'n_estimators':range(75,125),
                    'max_depth':range(1,5)})

gbc_gs.fit(X_train,y_train)

GridSearchCV(estimator=GradientBoostingClassifier(random_state=10),
         param_grid={'max_depth': range(1, 5),
                     'n_estimators': range(75, 125)})
```

```
gbc_gs.best_params_
```

```
{'max_depth': 2, 'n_estimators': 81}
```

```
grad_best=GradientBoostingClassifier(max_depth=2,n_estimators=76,rando
m_state=10)
grad_best.fit(X_train,y_train)
```

```
GradientBoostingClassifier(max_depth=2, n_estimators=76,
random_state=10)
```

```
report=classification_report(y_test,grad_best.predict(X_test))
```

```
print('Report:\n',report)
```

```
Report:
              precision    recall  f1-score   support

           0       0.86      0.98      0.91       164
           1       0.73      0.30      0.42        37

    accuracy                           0.85       201
   macro avg       0.80      0.64      0.67       201
weighted avg       0.84      0.85      0.82       201
```

XGBoost
```
from xgboost import XGBClassifier
```

```
C:\Users\hp\anaconda3\lib\site-packages\xgboost\compat.py:36:
FutureWarning: pandas.Int64Index is deprecated and will be removed
from pandas in a future version. Use pandas.Index with the appropriate
dtype instead.
  from pandas import MultiIndex, Int64Index
```

```
conda install -c conda-forge xgboost
```

```
Retrieving notices: ...working... done
Note: you may need to restart the kernel to use updated packages.
```

```
Collecting package metadata (current_repodata.json): ...working...
done
Solving environment: ...working... done
```

```
## Package Plan ##

  environment location: C:\Users\hp\anaconda3

  added / updated specs:
    - xgboost
```

The following packages will be downloaded:

```
    package                    |            build
    ---------------------------|-----------------
    conda-22.11.1              |   py39hcbf5309_1        908 KB
conda-forge
    ------------------------------------------------------------
                                        Total:        908 KB
```

The following packages will be SUPERSEDED by a higher-priority
channel:

```
  conda            pkgs/main::conda-22.11.1-py39haa95532~ --> conda-
forge::conda-22.11.1-py39hcbf5309_1
```

Downloading and Extracting Packages

```
conda-22.11.1         | 908 KB    |              |   0%
conda-22.11.1         | 908 KB    | 1            |   2%
conda-22.11.1         | 908 KB    | ########## | 100%
conda-22.11.1         | 908 KB    | ########## | 100%
```

Preparing transaction: ...working... done
Verifying transaction: ...working... done
Executing transaction: ...working... done

```
xg=XGBClassifier()
xg.fit(X_train,y_train)
```

C:\Users\hp\anaconda3\lib\site-packages\xgboost\sklearn.py:1224:
UserWarning: The use of label encoder in XGBClassifier is deprecated
and will be removed in a future release. To remove this warning, do
the following: 1) Pass option use_label_encoder=False when
constructing XGBClassifier object; and 2) Encode your labels (y) as
integers starting with 0, i.e. 0, 1, 2, ..., [num_class - 1].
  warnings.warn(label_encoder_deprecation_msg, UserWarning)

[16:55:16] WARNING: C:\Windows\Temp\abs_557yfx631l\croots\recipe\
xgboost-split_1659548953302\work\src\learner.cc:1115: Starting in
XGBoost 1.3.0, the default evaluation metric used with the objective
'binary:logistic' was changed from 'error' to 'logloss'. Explicitly
set eval_metric if you'd like to restore the old behavior.

XGBClassifier(base_score=0.5, booster='gbtree', colsample_bylevel=1,
              colsample_bynode=1, colsample_bytree=1,
```

```
             enable_categorical=False,
              gamma=0, gpu_id=-1, importance_type=None,
              interaction_constraints='', learning_rate=0.300000012,
              max_delta_step=0, max_depth=6, min_child_weight=1,
missing=nan,
              monotone_constraints='()', n_estimators=100, n_jobs=8,
              num_parallel_tree=1, predictor='auto', random_state=0,
              reg_alpha=0, reg_lambda=1, scale_pos_weight=1,
subsample=1,
              tree_method='exact', validate_parameters=1,
verbosity=None)

report=classification_report(y_test,xg.predict(X_test))
print('Report:\n',report)

Report:
               precision    recall  f1-score   support

           0       0.86      0.93      0.89       164
           1       0.52      0.32      0.40        37

    accuracy                           0.82       201
   macro avg       0.69      0.63      0.65       201
weighted avg       0.80      0.82      0.80       201
```

```
# hyper parameter tuning

xg_gs=GridSearchCV(xg,{'n_estimators':range(75,125),
                       'max_depth':range(1,5)})

xg_gs.fit(X_train,y_train)
```

```
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```

```
GridSearchCV(estimator=XGBClassifier(base_score=0.5, booster='gbtree',
                                     colsample_bylevel=1,
colsample_bynode=1,
                                     colsample_bytree=1,
                                     enable_categorical=False,
gamma=0,
                                     gpu_id=-1, importance_type=None,
                                     interaction_constraints='',
                                     learning_rate=0.300000012,
                                     max_delta_step=0, max_depth=6,
                                     min_child_weight=1, missing=nan,
                                     monotone_constraints='()',
                                     n_estimators=100, n_jobs=8,
                                     num_parallel_tree=1,
predictor='auto',
                                     random_state=0, reg_alpha=0,
reg_lambda=1,
                                     scale_pos_weight=1, subsample=1,
                                     tree_method='exact',
validate_parameters=1,
                                     verbosity=None),
             param_grid={'max_depth': range(1, 5),
                         'n_estimators': range(75, 125)})
```

```
xg_gs.best_params_
```

```
{'max_depth': 2, 'n_estimators': 75}
```

Best XGBoost model
```
xg_best=XGBClassifier(max_depth=1, n_estimators=88)
```

```
xg_best.fit(X_train,y_train)
```

```
[16:58:17] WARNING: C:\Windows\Temp\abs_557yfx631l\croots\recipe\
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```

```
XGBClassifier(base_score=0.5, booster='gbtree', colsample_bylevel=1,
              colsample_bynode=1, colsample_bytree=1,
```

```
              enable_categorical=False,
              gamma=0, gpu_id=-1, importance_type=None,
              interaction_constraints='', learning_rate=0.300000012,
              max_delta_step=0, max_depth=1, min_child_weight=1,
missing=nan,
              monotone_constraints='()', n_estimators=88, n_jobs=8,
              num_parallel_tree=1, predictor='auto', random_state=0,
              reg_alpha=0, reg_lambda=1, scale_pos_weight=1,
subsample=1,
              tree_method='exact', validate_parameters=1,
verbosity=None)

report=classification_report(y_test,xg_best.predict(X_test))
print('Report:\n',report)

Report:
               precision    recall  f1-score   support

           0       0.86      0.97      0.91       164
           1       0.71      0.32      0.44        37

    accuracy                           0.85       201
   macro avg       0.79      0.65      0.68       201
weighted avg       0.84      0.85      0.83       201
```

The best model so far is w rt gradient boost

```
grad_best.feature_importances_
```

```
array([1.35615311e-01, 5.32937191e-04, 7.92170652e-03, 4.48660365e-03,
       6.80020565e-01, 3.10375939e-02, 1.40385282e-01])
```

```
df=pd.DataFrame({'Feature':X.columns,
'Imp':grad_best.feature_importances_})
df
```

```
                         Feature       Imp
0                         vintage  0.135615
1                      dependents  0.000533
2            customer_nw_category  0.007922
3   days_since_last_transaction  0.004487
4                 current_balance  0.680021
5            current_month_credit  0.031038
6             current_month_debit  0.140385
```

```
df1=df.sort_values(['Imp'],ascending=False)
df1
```

```
                  Feature       Imp
4         current_balance  0.680021
6     current_month_debit  0.140385
```

```
0                     vintage  0.135615
5        current_month_credit  0.031038
2         customer_nw_category  0.007922
3   days_since_last_transaction  0.004487
1                  dependents  0.000533
```

```python
sns.barplot(x=df1['Imp'],y=df1['Feature'],data=df1);
```
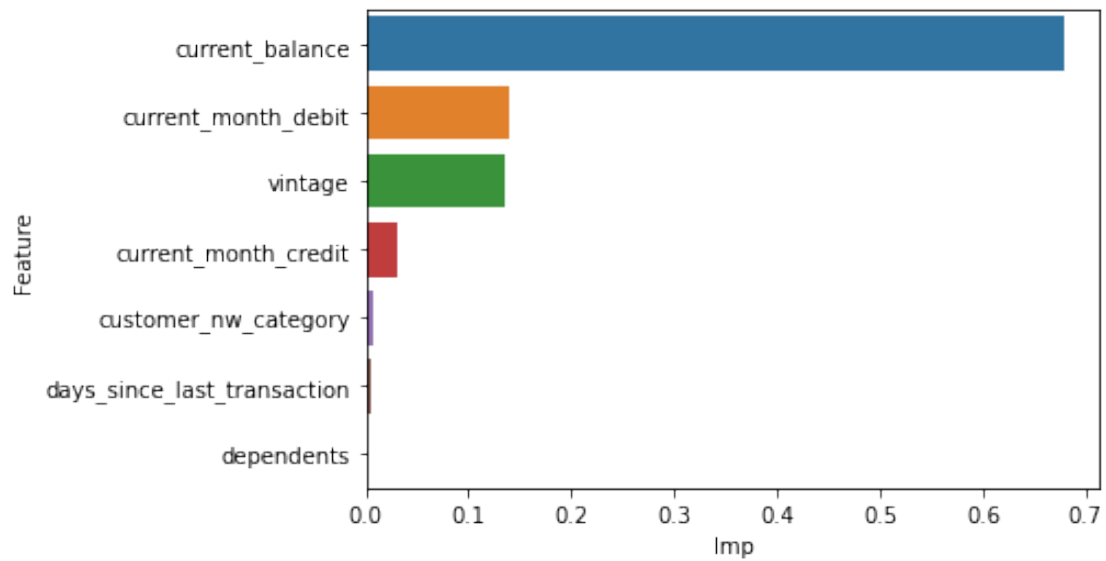
Clustering - K Means Clustering

Clustering

K Means Clustering

K ? Elbow method

  Silhouette method

Implement K means on a simulated dataset

Also, implement k means on a standard dataset

```python
import numpy as np
import pandas as pd
import matplotlib.pyplot as plt
from sklearn.datasets import make_blobs

plt.figure(figsize=(10,8))

X,y=make_blobs(n_samples=1000, n_features=2,centers=1,random_state=10)
plt.scatter(X[:,0],X[:,1]);
```
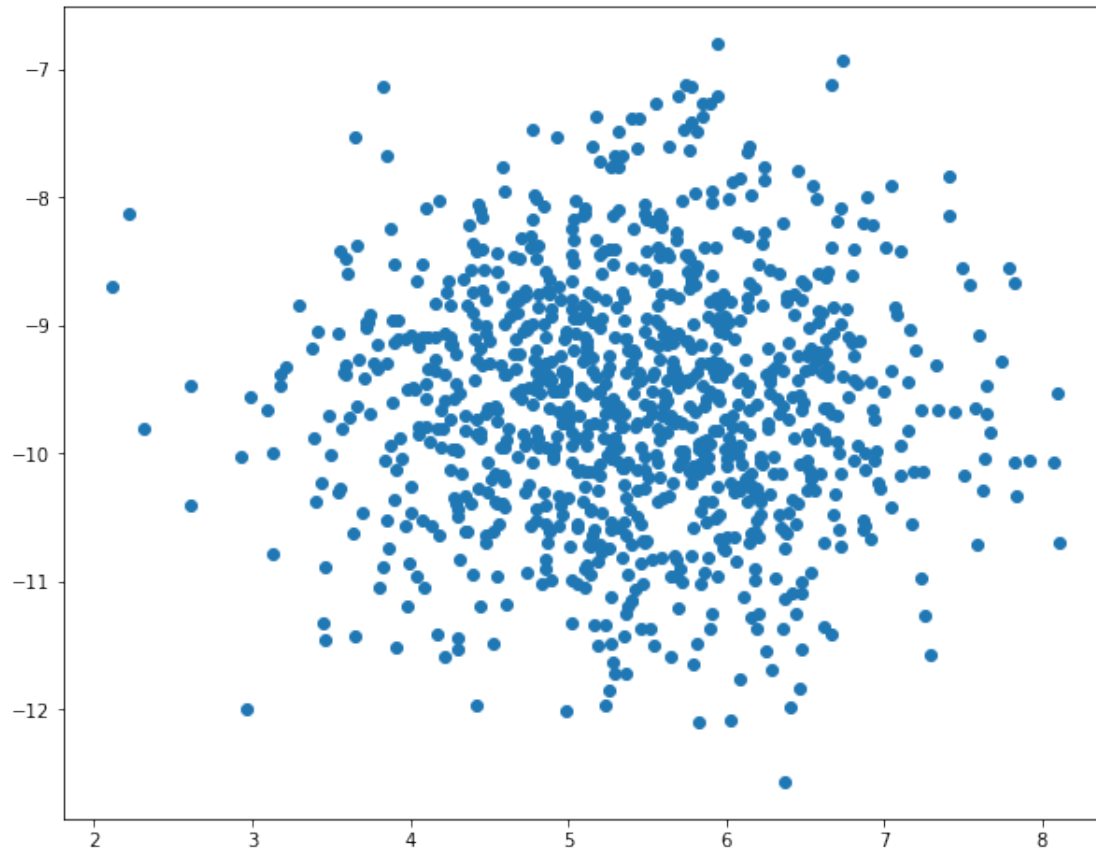
Data set

```python
churn=pd.read_csv('churn_prediction1.csv')

churn.dropna(inplace=True)

churn
```

```
      customer_id  vintage  age  gender  dependents    occupation  \
0               1     3135   66    Male         0.0  self_employed
4               6     2531   42    Male         2.0  self_employed
5               7      263   42  Female         0.0  self_employed
6               8     5922   72    Male         0.0        retired
7               9     1145   46    Male         0.0  self_employed
...           ...      ...  ...     ...         ...            ...
1294         1379     1921   71  Female         0.0  self_employed
1295         1380      766   10  Female         0.0        student
1297         1382     2993   59    Male         4.0       salaried
1298         1383     1766   13    Male         0.0        student
1299         1384     7306   77  Female         0.0  self_employed

             city  customer_nw_category  branch_code  \
0         Chicago                     2          755
4       Arlington                     3          388
```

```
5         Cambridge              2        1666
6          Revere                1           1
7          Arvada                2         317
...          ...               ...         ...
1294        Tucson               2        1264
1295     Los Angeles             2        2497
1297    Philadelphia             3         411
1298    Philadelphia             1         542
1299    Philadelphia             1         240

      days_since_last_transaction  ...  previous_month_end_balance  \
0                           224.0  ...                     1458.71
4                            58.0  ...                     1401.72
5                            60.0  ...                    16059.34
6                            98.0  ...                     7714.19
7                           172.0  ...                     8519.53
...                           ...  ...                          ...
1294                         87.0  ...                    10439.08
1295                         27.0  ...                      119.03
1297                          0.0  ...                     4116.26
1298                        339.0  ...                     4545.45
1299                         62.0  ...                    15014.05

      average_monthly_balance_prevQ  average_monthly_balance_prevQ2  \
0                          1458.71                           1449.07
4                          1643.31                           1871.12
5                         15211.29                          13798.82
6                          7859.74                          11232.37
7                          6511.82                          16314.17
...                            ...                               ...
1294                      11546.06                          10473.96
1295                       2419.19                            118.29
1297                       3775.87                           3463.84
1298                       4512.45                           4272.54
1299                      13910.17                          23436.02

      current_month_credit  previous_month_credit  current_month_debit
\
0                     0.20                   0.20                 0.20

4                     0.33                 714.61               588.62

5                     0.36                   0.36               857.50

6                     0.64                   0.64              1299.64

7                     0.27                   0.27               443.13

...                    ...                    ...                  ...
```

1294	0.50	0.50	30714.79
1295	7630.32	0.21	963.42
1297	1321.96	773.34	142.89
1298	0.23	0.23	0.23
1299	0.34	0.34	180.13

	previous_month_debit	current_month_balance
	previous_month_balance \	
0	0.20	1458.71
	1458.71	
4	1538.06	1157.15
	1677.16	
5	286.07	15719.44
	15349.75	
6	439.26	7076.06
	7755.98	
7	5688.44	8563.84
	5317.04	
...	...	...
...		
1294	0.50	12808.61
	10439.08	
1295	0.21	7019.52
	119.03	
1297	407.17	3991.89
	3690.78	
1298	0.23	4582.40
	4513.19	
1299	73.78	14890.06
	14461.60	

	churn
0	0
4	1
5	0
6	0
7	0
...	...
1294	0
1295	1
1297	0
1298	0
1299	0

```
[1001 rows x 21 columns]

churn=churn.head(1000)

churn
```

	customer_id	vintage	age	gender	dependents	occupation	\
0	1	3135	66	Male	0.0	self_employed	
4	6	2531	42	Male	2.0	self_employed	
5	7	263	42	Female	0.0	self_employed	
6	8	5922	72	Male	0.0	retired	
7	9	1145	46	Male	0.0	self_employed	
...	...	...	...	...	...	...	
1293	1378	662	48	Female	2.0	self_employed	
1294	1379	1921	71	Female	0.0	self_employed	
1295	1380	766	10	Female	0.0	student	
1297	1382	2993	59	Male	4.0	salaried	
1298	1383	1766	13	Male	0.0	student	

	city	customer_nw_category	branch_code	\
0	Chicago	2	755	
4	Arlington	3	388	
5	Cambridge	2	1666	
6	Revere	1	1	
7	Arvada	2	317	
...	...	...	...	
1293	Philadelphia	1	12	
1294	Tucson	2	1264	
1295	Los Angeles	2	2497	
1297	Philadelphia	3	411	
1298	Philadelphia	1	542	

	days_since_last_transaction	...	previous_month_end_balance	\
0	224.0	...	1458.71	
4	58.0	...	1401.72	
5	60.0	...	16059.34	
6	98.0	...	7714.19	
7	172.0	...	8519.53	
...	...	...	...	
1293	336.0	...	2638.42	
1294	87.0	...	10439.08	
1295	27.0	...	119.03	
1297	0.0	...	4116.26	
1298	339.0	...	4545.45	

	average_monthly_balance_prevQ	average_monthly_balance_prevQ2	\
0	1458.71	1449.07	
4	1643.31	1871.12	
5	15211.29	13798.82	

```
6                              7859.74                       11232.37
7                              6511.82                       16314.17
...                                ...                           ...
1293                           4000.38                       12284.94
1294                          11546.06                       10473.96
1295                           2419.19                         118.29
1297                           3775.87                        3463.84
1298                           4512.45                        4272.54

      current_month_credit  previous_month_credit  current_month_debit
\
0                      0.20                   0.20                 0.20

4                      0.33                 714.61               588.62

5                      0.36                   0.36               857.50

6                      0.64                   0.64              1299.64

7                      0.27                   0.27               443.13

...                     ...                    ...                  ...

1293                   0.49                   0.49                 0.49

1294                   0.50                   0.50             30714.79

1295                7630.32                   0.21               963.42

1297                1321.96                 773.34               142.89

1298                   0.23                   0.23                 0.23


      previous_month_debit  current_month_balance
previous_month_balance  \
0                      0.20                1458.71
1458.71
4                   1538.06                1157.15
1677.16
5                    286.07               15719.44
15349.75
6                    439.26                7076.06
7755.98
7                   5688.44                8563.84
5317.04
...                     ...                    ...
...
1293                   0.49                2623.89
```

```
2514.24
1294                    0.50                  12808.61
10439.08
1295                    0.21                   7019.52
119.03
1297                  407.17                   3991.89
3690.78
1298                    0.23                   4582.40
4513.19

        churn
0           0
4           1
5           0
6           0
7           0
...       ...
1293        0
1294        0
1295        1
1297        0
1298        0

[1000 rows x 21 columns]
```

```python
data = np.vstack((churn['current_balance'].head(150),
churn['days_since_last_transaction'].head(150),churn['vintage'].head(1
50),churn['current_month_credit'].head(150))).T

data
```

```
array([[1.4587100e+03, 2.2400000e+02, 3.1350000e+03, 2.0000000e-01],
       [9.2772000e+02, 5.8000000e+01, 2.5310000e+03, 3.3000000e-01],
       [1.5202200e+04, 6.0000000e+01, 2.6300000e+02, 3.6000000e-01],
       [7.0069300e+03, 9.8000000e+01, 5.9220000e+03, 6.4000000e-01],
       [1.0096580e+04, 1.7200000e+02, 1.1450000e+03, 2.7000000e-01],
       [1.3558600e+03, 1.9000000e+01, 2.1320000e+03, 7.1451000e+02],
       [4.9579500e+03, 0.0000000e+00, 3.3790000e+03, 6.9122900e+03],
       [1.9287600e+03, 5.0000000e+00, 6.6100000e+02, 4.4340000e+02],
       [6.8864000e+03, 2.0000000e+01, 7.1080000e+03, 7.5645300e+03],
       [5.5438000e+02, 4.7000000e+01, 2.4380000e+03, 3.3000000e-01],
       [4.5484800e+03, 3.0300000e+02, 5.7030000e+03, 6.1000000e-01],
       [5.4314200e+03, 5.2000000e+01, 2.3140000e+03, 6.6000000e-01],
       [1.4484900e+03, 0.0000000e+00, 2.7230000e+03, 1.9071000e+02],
       [5.2921300e+03, 3.0000000e+00, 6.1110000e+03, 3.9169100e+03],
       [3.5077100e+03, 6.9000000e+01, 5.8210000e+03, 5.6000000e-01],
       [3.0427000e+03, 3.1000000e+01, 3.5000000e+03, 3.0000000e-01],
       [2.1800000e+00, 2.3000000e+01, 5.7240000e+03, 7.9790000e+01],
       [6.8864000e+03, 2.0000000e+01, 7.1080000e+03, 7.5645300e+03],
       [5.5438000e+02, 4.7000000e+01, 2.4380000e+03, 3.3000000e-01],
       [4.5484800e+03, 3.0300000e+02, 5.7030000e+03, 6.1000000e-01],
```

```
[2.5962100e+03, 4.7000000e+01, 7.5400000e+02, 6.0000000e-01],
[2.0273430e+04, 2.0000000e+01, 2.6200000e+03, 7.8300000e+00],
[7.1112900e+03, 9.0000000e+00, 1.3910000e+03, 1.4326000e+02],
[6.4244600e+03, 9.0000000e+00, 4.1750000e+03, 6.3900000e+01],
[9.7257000e+02, 2.7000000e+01, 6.0060000e+03, 1.8598440e+04],
[1.0701320e+04, 3.6000000e+01, 2.9630000e+03, 1.6000000e-01],
[7.6136100e+03, 1.2500000e+02, 2.6840000e+03, 1.9000000e-01],
[2.2690000e+02, 5.0000000e+00, 5.8030000e+03, 3.7471690e+04],
[1.4367100e+03, 7.7000000e+01, 5.5790000e+03, 4.4000000e-01],
[5.5759500e+03, 1.0000000e+01, 2.3500000e+03, 3.5780000e+02],
[3.2951700e+03, 9.7000000e+01, 4.7500000e+03, 4.3000000e-01],
[1.3148580e+04, 3.0000000e+00, 6.8340000e+03, 4.2347000e+02],
[7.6136100e+03, 1.2500000e+02, 2.6840000e+03, 1.9000000e-01],
[2.2690000e+02, 5.0000000e+00, 5.8030000e+03, 3.7471690e+04],
[5.7171300e+03, 1.6000000e+02, 9.3700000e+02, 1.0000000e-01],
[3.8544400e+03, 1.4000000e+01, 3.4280000e+03, 1.4287600e+03],
[3.5856200e+03, 7.0000000e+00, 1.7760000e+03, 3.2607100e+03],
[4.4743800e+03, 9.5000000e+01, 2.7010000e+03, 5.1000000e-01],
[1.4439500e+03, 1.7000000e+01, 1.9160000e+03, 3.2886000e+02],
[2.1252860e+04, 3.0000000e+00, 2.2920000e+03, 7.8248000e+02],
[8.9472000e+02, 2.0000000e+01, 4.8430000e+03, 4.8746000e+02],
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[3.3651600e+03, 7.0000000e+00, 2.6220000e+03, 1.4292700e+03],
[3.3732100e+03, 1.1600000e+02, 4.9950000e+03, 5.4000000e-01],
[4.0916600e+03, 7.6000000e+01, 1.0370000e+03, 2.0000000e-01],
[1.2039770e+04, 1.1000000e+01, 4.8700000e+03, 3.4291000e+02],
[6.0369000e+03, 1.8000000e+01, 7.0400000e+02, 9.4769000e+02],
[1.5782100e+03, 2.8000000e+01, 5.0960000e+03, 4.1060000e+01],
[1.0503000e+03, 2.0000000e+01, 5.5500000e+03, 1.4989900e+03],
[5.0652900e+03, 2.5000000e+01, 2.7090000e+03, 6.5800000e+01],
[1.5942780e+04, 2.5000000e+01, 3.9520000e+03, 6.0496000e+02],
[7.1514600e+03, 1.7300000e+02, 1.0430000e+03, 4.0000000e-01],
[2.7970630e+04, 5.0000000e+00, 4.3400000e+02, 5.9708900e+03],
[4.3167000e+02, 4.6000000e+01, 7.6100000e+02, 3.7000000e-01],
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[3.1445600e+03, 6.9000000e+01, 4.6960000e+03, 1.0000000e-02],
[6.7856000e+03, 4.5000000e+01, 6.1630000e+03, 3.0000000e-01],
[3.1222700e+03, 7.5000000e+01, 2.9640000e+03, 4.7000000e-01],
```

[9.0135200e+03, 2.1900000e+02, 1.6440000e+03, 1.7000000e-01],
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[2.4887700e+03, 8.1000000e+01, 8.3700000e+02, 6.6000000e-01],
[9.5724300e+03, 1.7000000e+01, 4.1290000e+03, 1.3660000e+01],
[1.6969050e+04, 3.0000000e+00, 6.1070000e+03, 4.1390000e+01],
[9.0984000e+02, 2.7000000e+01, 6.9410000e+03, 1.5448600e+03],
[1.0864400e+04, 2.9700000e+02, 5.0600000e+02, 1.0000000e-02],
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[3.1580800e+03, 2.7000000e+01, 3.2800000e+03, 4.2863600e+03],
[2.4045600e+03, 3.0000000e+00, 8.2200000e+02, 2.1431300e+03],
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[5.7182000e+03, 3.5000000e+01, 5.0400000e+02, 3.1000000e-01],
[6.8881900e+03, 8.6000000e+01, 1.4880000e+03, 6.9000000e-01],
[8.8362800e+03, 0.0000000e+00, 4.0020000e+03, 6.2323100e+03],

```
        [1.4712000e+03, 4.8000000e+01, 2.4680000e+03, 5.3000000e-01],
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        [1.0657760e+04, 6.1000000e+01, 1.6830000e+03, 1.0000000e-02],
        [3.2781100e+03, 2.0500000e+02, 2.6090000e+03, 5.6000000e-01],
        [1.6332000e+03, 3.0000000e+00, 2.9600000e+03, 7.1437000e+02],
        [1.1651820e+04, 2.5700000e+02, 6.0600000e+02, 5.9000000e-01],
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        [2.3542900e+03, 6.0000000e+00, 2.4910000e+03, 2.3600000e+00],
        [2.9599740e+04, 6.0000000e+00, 1.4490000e+03, 8.1428590e+04],
        [1.7999400e+03, 1.3200000e+02, 4.3670000e+03, 2.9000000e-01],
        [1.0309020e+04, 2.0900000e+02, 3.8240000e+03, 5.6000000e-01],
        [4.9701300e+03, 5.3000000e+01, 1.5760000e+03, 5.4000000e-01],
        [7.1543500e+03, 2.4000000e+01, 2.8000000e+03, 1.4974400e+03],
        [1.4040000e+03, 2.4000000e+01, 1.2410000e+03, 2.5714400e+03],
        [1.8985400e+03, 7.7000000e+01, 3.1460000e+03, 5.1000000e-01],
        [1.7398100e+03, 9.5000000e+01, 4.9700000e+03, 1.0000000e-01],
        [2.4626500e+03, 3.0000000e+00, 3.7360000e+03, 6.7700000e+02],
        [2.6303600e+03, 7.0000000e+00, 2.7980000e+03, 2.8591000e+02],
        [1.0725200e+04, 1.3500000e+02, 1.3890000e+03, 5.1000000e-01],
        [6.6533000e+02, 1.8000000e+01, 2.1800000e+03, 7.5290000e+01],
        [4.6176300e+03, 3.1000000e+01, 4.1150000e+03, 7.0000000e-01],
        [2.9470100e+03, 2.5000000e+01, 2.0080000e+03, 1.8576000e+02],
        [1.4334800e+03, 2.1000000e+01, 6.1130000e+03, 3.1336000e+03],
        [5.8233600e+03, 1.4900000e+02, 4.6130000e+03, 1.1000000e-01],
        [1.3871000e+02, 9.0000000e+00, 2.6830000e+03, 2.5092919e+05],
        [2.1915100e+03, 2.8600000e+02, 2.9820000e+03, 1.1000000e-01],
        [1.7569400e+03, 1.1000000e+01, 3.3940000e+03, 6.7164000e+02],
        [1.4332100e+03, 2.1000000e+01, 3.0050000e+03, 2.8574000e+03],
        [2.0768100e+03, 0.0000000e+00, 3.1430000e+03, 2.8706400e+03],
        [3.7312000e+03, 3.0000000e+00, 1.1400000e+03, 2.8630000e+02]])
```

```python
X = np.vstack((churn['vintage'].head(1000),
churn['days_since_last_transaction'].head(1000))).T

X
```

```
array([[3135.,  224.],
       [2531.,   58.],
       [ 263.,   60.],
       ...,
       [ 766.,   27.],
       [2993.,    0.],
       [1766.,  339.]])
```

```python
y
```

```
array([0, 0, 0, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 0, 0, 1, 0, 1,
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       0, 0, 0, 1, 0, 1, 1, 0, 0, 0, 0, 0, 0, 0, 1, 1, 1, 0, 1, 1, 1,
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       0, 1, 0, 0, 0, 0, 1, 1, 1, 0, 1, 1, 1, 1, 0, 0, 1, 1, 1, 1, 0,
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       1, 1, 0, 1, 0, 0, 0, 0, 1, 0])

plt.figure(figsize=(10,8))

y=make_blobs(n_samples=1000, n_features=2,centers=2,random_state=10)
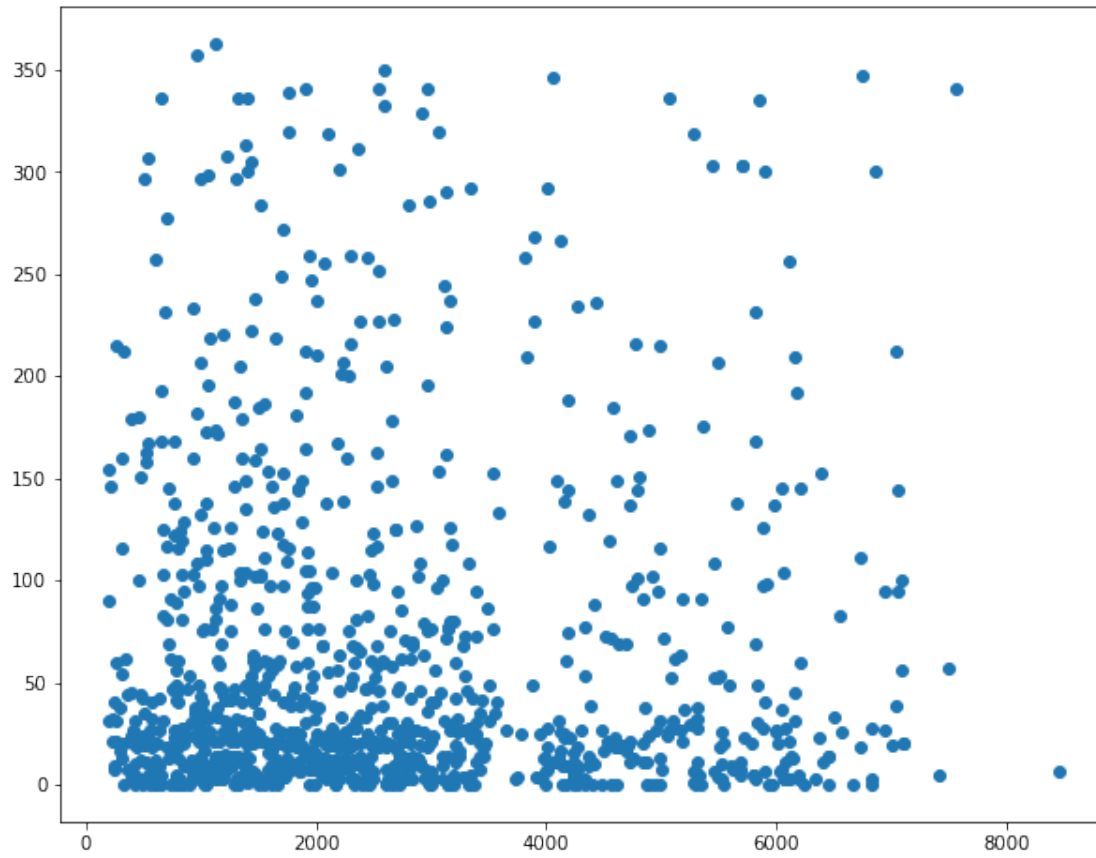plt.scatter(X[:,0],X[:,1]);
```
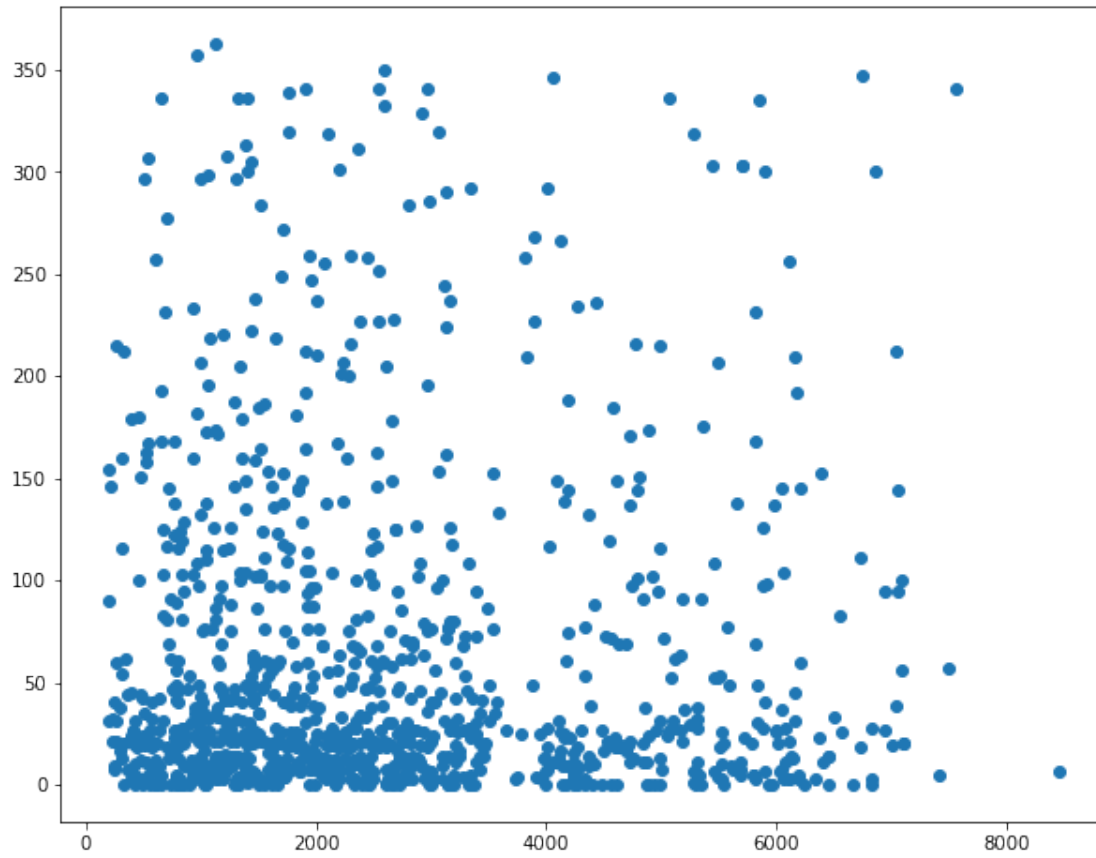
```
plt.figure(figsize=(10,8))

y=make_blobs(n_samples=1000, n_features=2,centers=3,random_state=10)
plt.scatter(X[:,0],X[:,1]);
```
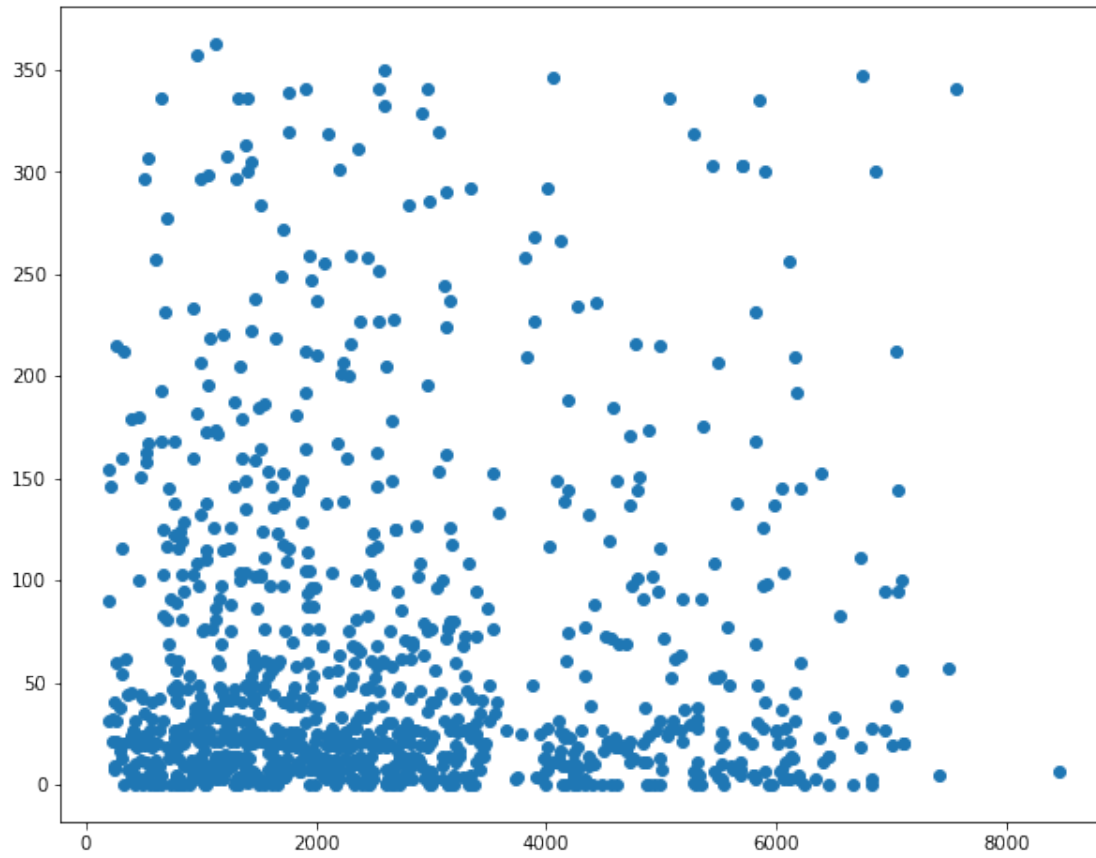
```
plt.figure(figsize=(10,8))

y=make_blobs(n_samples=1000, n_features=2,centers=4,random_state=10)
plt.scatter(X[:,0],X[:,1]);
```

Implementing K Means on this dataset

Elbow method for finding k

```python
from sklearn.cluster import KMeans

SSD=[]
for k in range(1,25):
    kmeans=KMeans(n_clusters=k,random_state=10)
    kmeans.fit(X)
    SSD.append(kmeans.inertia_)
plt.plot(range(1,25),SSD);
```

```
C:\Users\hp\anaconda3\lib\site-packages\sklearn\cluster\
_kmeans.py:1036: UserWarning: KMeans is known to have a memory leak on
Windows with MKL, when there are less chunks than available threads.
You can avoid it by setting the environment variable
OMP_NUM_THREADS=4.
  warnings.warn(
```

X
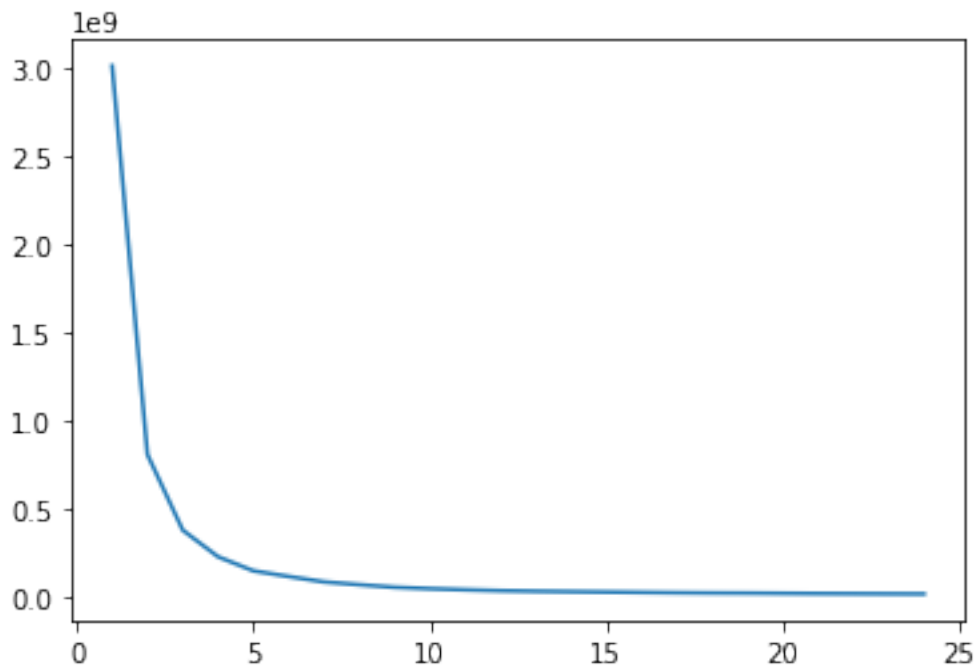
```
array([[3135.,  224.],
       [2531.,   58.],
       [ 263.,   60.],
       ...,
       [ 766.,   27.],
       [2993.,    0.],
       [1766.,  339.]])
```

Silhouette method
```
from sklearn.metrics import silhouette_score
SS=[]
for k in range(2,25):
    kmeans=KMeans(n_clusters=k, random_state=10)
    kmeans.fit(X)
    SS.append(silhouette_score(X,kmeans.predict(X)))
plt.plot(range(2,25),SS);
```
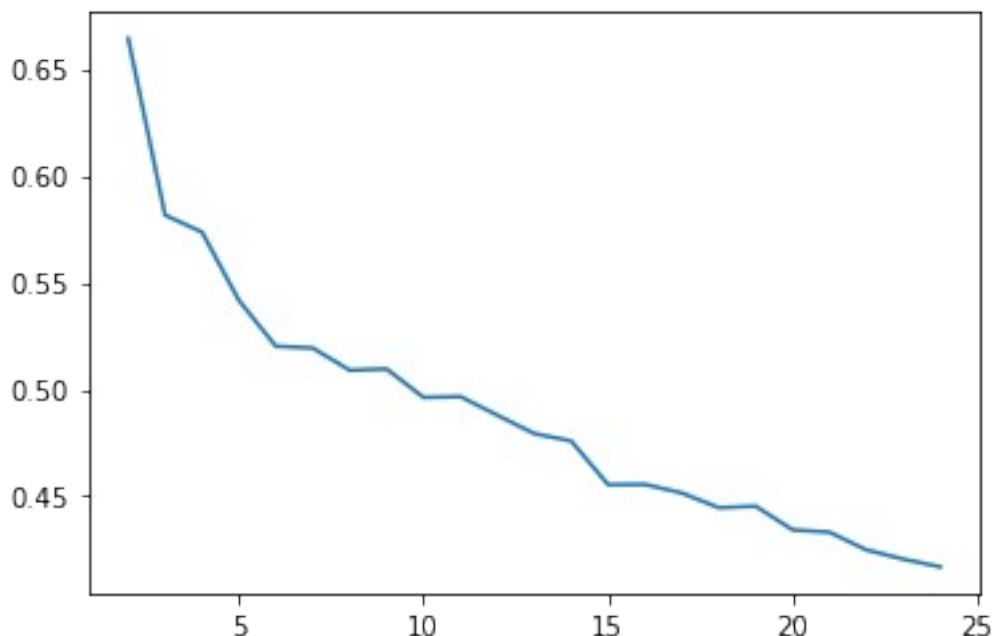
The best value of =2, the highest peak

Building the best model

```
k_best=KMeans(n_clusters=2,random_state=10)
k_best.fit(X)
clust_pred=k_best.predict(X)
clust_pred
```

```
array([1, 1, 1, 0, 1, 1, 1, 1, 0, 1, 0, 1, 1, 0, 0, 0, 0, 0, 1, 0, 1,
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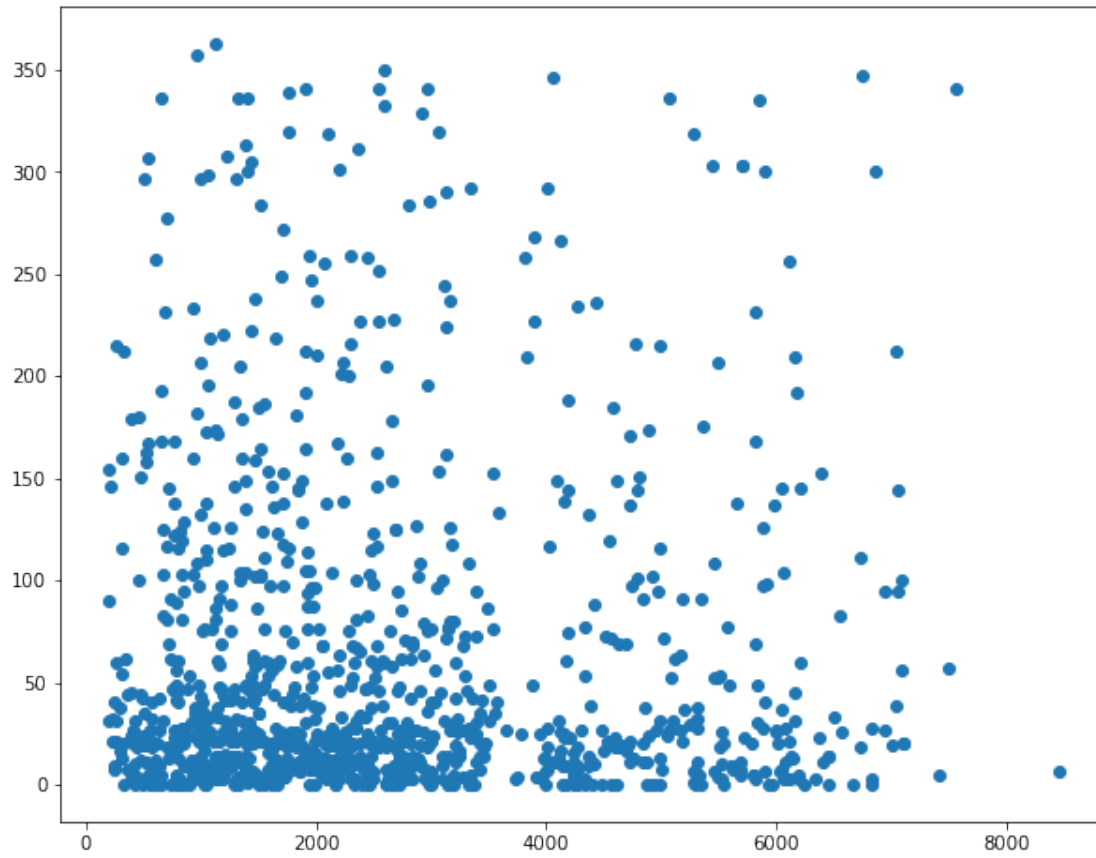       1, 1, 1, 1, 1, 1, 1, 1, 1, 1])

k_best.cluster_centers_

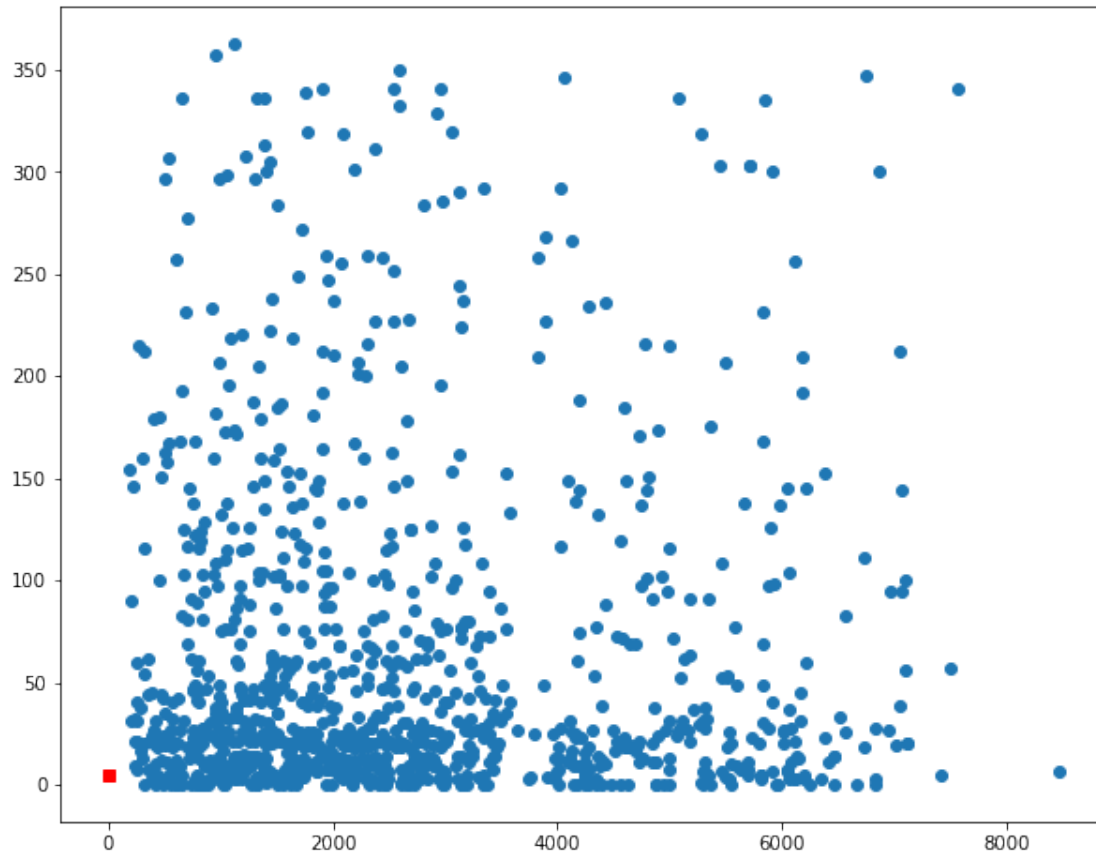array([[5184.35658915,   65.        ],
       [1785.61590296,   65.03369272]])

plt.figure(figsize=(10,8))
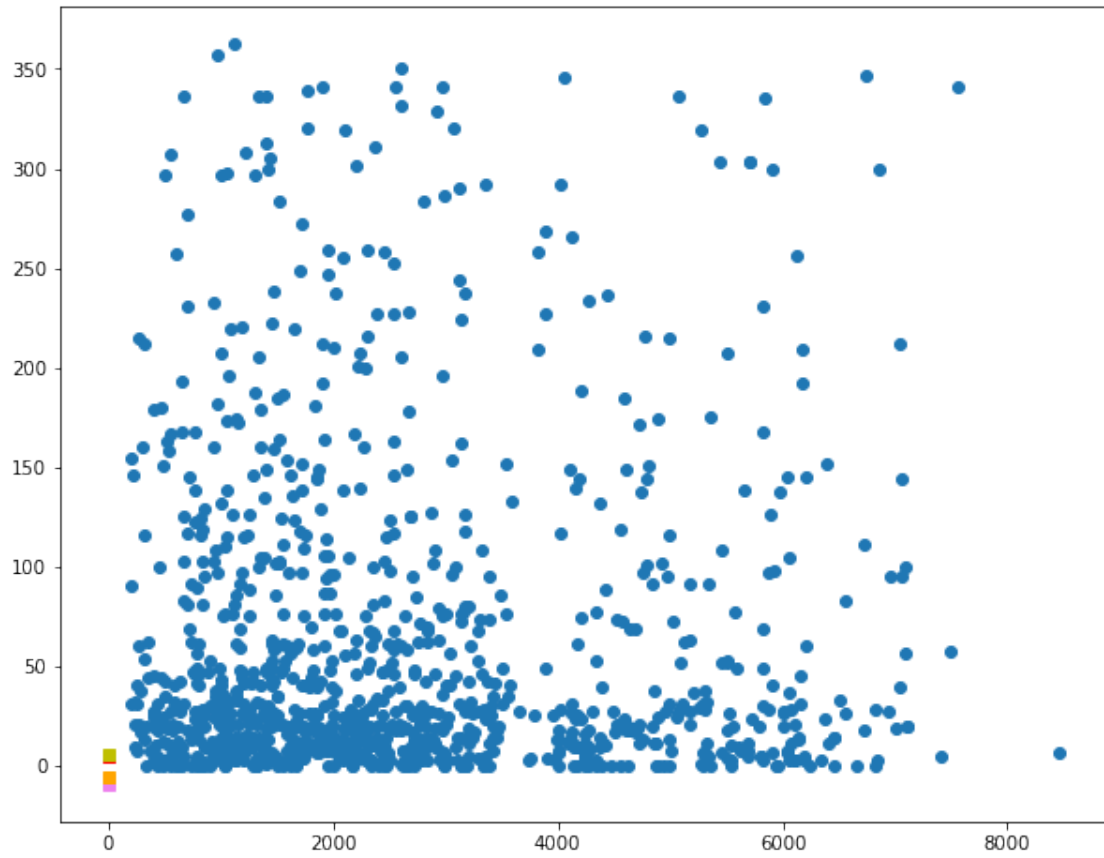plt.scatter(X[:,0],X[:,1]);
```

```
plt.figure(figsize=(10,8))
plt.scatter(X[:,0],X[:,1])
plt.plot(2.57427374,  4.9551547, c='r',marker='s');
```

```
plt.figure(figsize=(10,8))
plt.scatter(X[:,0],X[:,1])
plt.plot(2.57427374,  4.9551547, c='r',marker='s')
plt.plot(5.54690135, -9.62123904,c='violet',marker='s')
plt.plot(-6.10307996,  5.14422118,c='y',marker='s')
plt.plot(-0.03749354, -5.43011018,c='orange',marker='s');
```

END