## Predicting Customer Churn using ML methods

```
In [1]: #import basic libraries
         import os,sys
         import numpy as np
         import pandas as pd
         import matplotlib.pyplot as plt
         %matplotlib inline
         import seaborn as sns
         sns.set()
         import warnings
         warnings.filterwarnings('ignore')
In [2]:
         #import dataset
         dataset=pd.read_csv('Telcom Data.csv')
         dataset.head()
Out[2]:
            customerID gender SeniorCitizen Partner Dependents tenure PhoneService MultipleLines
                 7590-
                                                                                        No phone
         0
                        Female
                                         0
                                                Yes
                                                            No
                                                                                No
                VHVEG
                                                                                           service
                 5575-
                         Male
                                         0
                                                No
                                                            No
                                                                    34
                                                                                Yes
                                                                                              No
                GNVDE
                 3668-
         2
                                         0
                                                                     2
                         Male
                                                No
                                                            No
                                                                                Yes
                                                                                             No
                QPYBK
                 7795-
                                                                                        No phone
         3
                         Male
                                                No
                                                            No
                                                                    45
                                                                                No
               CFOCW
                                                                                           service
                 9237-
         4
                        Female
                                         0
                                                No
                                                            No
                                                                     2
                                                                                Yes
                                                                                             No
                HQITU
        5 rows × 21 columns
In [3]:
         dataset.shape
         (7043, 21)
Out[3]:
In [4]:
         dataset1=dataset.copy()
In [5]:
        dataset.info()
```

```
<class 'pandas.core.frame.DataFrame'>
RangeIndex: 7043 entries, 0 to 7042
Data columns (total 21 columns):
    Column
                     Non-Null Count Dtype
---
                     -----
    customerID
                     7043 non-null
0
                                    object
1
                     7043 non-null
                                    object
    gender
    SeniorCitizen 7043 non-null int64
 2
    Partner
                    7043 non-null
                                    object
                   7043 non-null
    Dependents
                                    object
                   7043 non-null int64
5
    tenure
    PhoneService
MultipleLines
6
                    7043 non-null object
7
                    7043 non-null object
    InternetService 7043 non-null object
8
9
    OnlineSecurity 7043 non-null object
10 OnlineBackup
                   7043 non-null object
11 DeviceProtection 7043 non-null object
12 TechSupport 7043 non-null13 StreamingTV 7043 non-null
                     7043 non-null
                                    object
                                    object
 14 StreamingMovies 7043 non-null
                                    object
 15 Contract
                   7043 non-null
                                    object
16 PaperlessBilling 7043 non-null
                                    object
 17 PaymentMethod
                     7043 non-null
                                    object
 18 MonthlyCharges
                     7043 non-null
                                    float64
 19 TotalCharges
                     7043 non-null
                                    object
 20 Churn
                     7043 non-null
                                    object
dtypes: float64(1), int64(2), object(18)
memory usage: 1.1+ MB
```

```
In [6]: # Total Charges given as object ,check for values
for i in dataset.columns:
    print('*************',i,'**********')
    print()
    print(set(dataset[i].tolist()))
    print()
```

{'5624-BQSSA', '7209-JCUDS', '1062-LHZOD', '2969-VAPYH', '7779-LGOVN', '0795-XCCT E', '2474-LCNUE', '1976-AZZPJ', '2796-UUZZO', '2034-CGRHZ', '4988-IQIGL', '3486-HO OGQ', '9283-LZQOH', '0302-JOIVN', '7129-AZJDE', '5312-UXESG', '0639-TSIQW', '1699-HPSBG', '4154-AQUGT', '1839-UMACK', '6655-LHBYW', '2162-FRZAA', '0702-PGIBZ', '806 3-GBATB', '3943-KDREE', '1875-QIVME', '1064-FBXNK', '4884-TVUQF', '6243-OZGFH', '5 144-TVGLP', '5827-MWCZK', '6797-UCJHZ', '5760-WRAHC', '8718-PTMEZ', '1775-KWJKQ', '6701-DHKWQ', '7025-IWFHT', '1471-GIQKQ', '5619-PTMIK', '6892-EZDTG', '9052-VKDU W', '6870-ZWMNX', '9644-UMGQA', '7797-EJMDP', '3023-GFLBR', '9470-RTWDV', '7096-UC LNH', '7079-QRCBC', '2135-DQWAQ', '8388-DMKAE', '0917-EZOLA', '8917-SZTTJ', '6366-ZGQGL', '9867-NNXLC', '0516-VRYBW', '6746-WAUWT', '1270-XKUCC', '2862-PFNIK', '380 4-RVTGV', '8630-QSGXK', '2880-FPNAE', '0701-TJSEF', '9730-DRTMJ', '1971-DTCZB', '1 582-RAFML', '1022-RKXDR', '9871-ELEYA', '0376-YMCJC', '0011-IGKFF', '7277-KAMWT', 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******* Dependents *******
{'No', 'Yes'}
******* tenure *******
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******* PhoneService *******
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****** MultipleLines *******
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******* InternetService ********
{'No', 'Fiber optic', 'DSL'}
******** OnlineSecurity ********
{'No', 'No internet service', 'Yes'}
******** OnlineBackup ********
{'No', 'No internet service', 'Yes'}
******* DeviceProtection ********
{'No', 'No internet service', 'Yes'}
******* TechSupport ********
{'No', 'No internet service', 'Yes'}
******* StreamingTV ********
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******* StreamingMovies ********
{'No', 'No internet service', 'Yes'}
******** Contract ********
{'Month-to-month', 'Two year', 'One year'}
****** PaperlessBilling *******
{'No', 'Yes'}
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\*\*\*\*\*\* PaymentMethod \*\*\*\*\*\*\*

\*\*\*\*\*\*\* MonthlyCharges \*\*\*\*\*\*\*

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```

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{'No', 'Yes'}

```
In [7]: dataset['TotalCharges'].value_counts() #11 space as values
```

```
11
Out[7]:
         20.2
                    11
         19.75
                     9
                     8
         20.05
         19.9
                     8
         6849.4
                     1
         692.35
                     1
         130.15
                     1
         3211.9
                     1
         6844.5
                     1
         Name: TotalCharges, Length: 6531, dtype: int64
```

```
In [8]: dataset['TotalCharges']=dataset['TotalCharges'].replace(" ",np.nan)
    dataset['TotalCharges']=dataset['TotalCharges'].fillna(dataset['TotalCharges'].medi
```

```
dataset['TotalCharges']=dataset['TotalCharges'].astype('float')
In [9]:
In [10]:
         dataset.info()
         <class 'pandas.core.frame.DataFrame'>
         RangeIndex: 7043 entries, 0 to 7042
         Data columns (total 21 columns):
              Column
                               Non-Null Count Dtype
              ____
                                -----
                                               ----
          0
             customerID
                                               object
                               7043 non-null
          1
              gender
                               7043 non-null
                                               object
          2
              SeniorCitizen
                               7043 non-null
                                               int64
                               7043 non-null
          3
              Partner
                                               object
          4
             Dependents
                               7043 non-null object
          5
              tenure
                              7043 non-null
                                               int64
              PhoneService
                              7043 non-null
                                               object
             PhoneService 7043 non-null MultipleLines 7043 non-null
          7
                                               object
          8
              InternetService 7043 non-null
                                               object
             OnlineSecurity
          9
                               7043 non-null
                                               object
          10 OnlineBackup
                               7043 non-null
                                               object
          11 DeviceProtection 7043 non-null
                                               object
          12 TechSupport 7043 non-null 13 StreamingTV 7043 non-null
                                               object
                                               object
          14 StreamingMovies 7043 non-null
                                               object
                               7043 non-null
          15 Contract
                                               object
          16 PaperlessBilling 7043 non-null
                                               object
          17 PaymentMethod
                               7043 non-null
                                               object
          18 MonthlyCharges
                               7043 non-null
                                               float64
                                               float64
          19 TotalCharges
                               7043 non-null
          20 Churn
                               7043 non-null
                                               object
         dtypes: float64(2), int64(2), object(17)
         memory usage: 1.1+ MB
In [11]:
         dataset=dataset.drop(['customerID'],axis=1)
```

#### **Missing Values**

```
In [12]:
          dataset.isnull().sum()
         gender
                              0
Out[12]:
                              0
         SeniorCitizen
         Partner
                              0
         Dependents
                              0
                              0
         tenure
         PhoneService
                              0
         MultipleLines
                              0
                              0
         InternetService
         OnlineSecurity
                              0
         OnlineBackup
                              0
         DeviceProtection
                              0
          TechSupport
                              0
         StreamingTV
                              0
         StreamingMovies
                              0
         Contract
         PaperlessBilling
                              0
                              0
         PaymentMethod
         MonthlyCharges
                              0
         TotalCharges
                              0
                              0
         Churn
          dtype: int64
```

#### **Outlier Treatment**

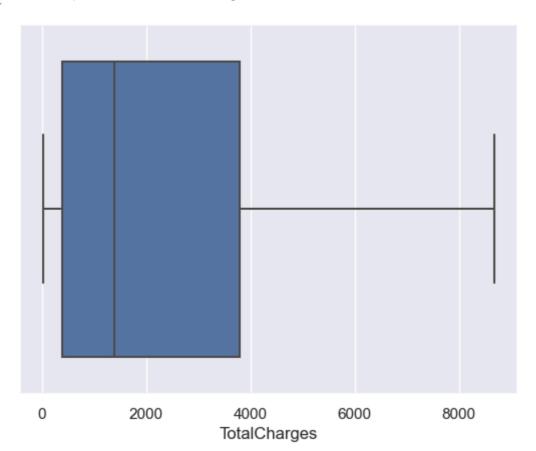
In [13]: dataset.describe()

	F 7	
()	1721	
UILL	1 1 2 1	

	SeniorCitizen	tenure	MonthlyCharges	TotalCharges
count	7043.000000	7043.000000	7043.000000	7043.000000
mean	0.162147	32.371149	64.761692	2281.916928
std	0.368612	24.559481	30.090047	2265.270398
min	0.000000	0.000000	18.250000	18.800000
25%	0.000000	9.000000	35.500000	402.225000
50%	0.000000	29.000000	70.350000	1397.475000
75%	0.000000	55.000000	89.850000	3786.600000
max	1.000000	72.000000	118.750000	8684.800000

In [14]: sns.boxplot(dataset['TotalCharges']) #No outliers

<AxesSubplot:xlabel='TotalCharges'> Out[14]:



# **EDA**

```
In [15]:
         dataset.shape
```

(7043, 20) Out[15]:

```
dataset['gender'].value_counts()
In [16]:
         Male
                    3555
Out[16]:
         Female
                    3488
         Name: gender, dtype: int64
         dataset['SeniorCitizen'].value_counts()
                                                     #most people are not senior citizen
In [17]:
               5901
Out[17]:
               1142
         Name: SeniorCitizen, dtype: int64
         dataset['Partner'].value counts()
In [18]:
                3641
         No
Out[18]:
                3402
         Yes
         Name: Partner, dtype: int64
         dataset['Dependents'].value_counts()
In [19]:
                4933
Out[19]:
         Yes
                2110
         Name: Dependents, dtype: int64
In [20]:
          dataset['InternetService'].value_counts()
                         3096
         Fiber optic
Out[20]:
         DSL
                         2421
                         1526
         No
         Name: InternetService, dtype: int64
         dataset['PhoneService'].value_counts()
In [21]:
                 6361
Out[21]:
                  682
         Name: PhoneService, dtype: int64
         dataset['PaperlessBilling'].value_counts()
In [22]:
                4171
         Yes
Out[22]:
                2872
         Name: PaperlessBilling, dtype: int64
         dataset['Churn'].value_counts()
                                            #imbalance dataset
In [23]:
                5174
         No
Out[23]:
         Yes
                1869
         Name: Churn, dtype: int64
In [24]:
         #pandas profiling
          from pandas_profiling import ProfileReport
          report=ProfileReport(dataset)
          report.to_file(output_file="Pandas Profiling EDA.html")
                                             | 0/5 [00:00<?, ?it/s]
         Summarize dataset:
                              0%|
                                       0%
                                                     | 0/1 [00:00<?, ?it/s]
         Generate report structure:
                                      | 0/1 [00:00<?, ?it/s]
         Render HTML:
                        0%|
         Export report to file:
                                                | 0/1 [00:00<?, ?it/s]
         Imbalance Treatment
         dataset['Churn'].value_counts()/len(dataset)*100
In [25]:
```

```
dataset['Churn']=dataset['Churn'].replace({'Yes':1,'No':0})
In [26]:
            dataset['Churn'].value counts()
                   5174
Out[26]:
            1
                   1869
            Name: Churn, dtype: int64
            Encoding
            dataset.columns
In [27]:
            Index(['gender', 'SeniorCitizen', 'Partner', 'Dependents', 'tenure',
Out[27]:
                     'PhoneService', 'MultipleLines', 'InternetService', 'OnlineSecurity', 'OnlineBackup', 'DeviceProtection', 'TechSupport', 'StreamingTV', 'StreamingTV',
                     'StreamingMovies', 'Contract', 'PaperlessBilling', 'PaymentMethod',
                     'MonthlyCharges', 'TotalCharges', 'Churn'],
                    dtype='object')
            dataset=pd.get_dummies(dataset,columns=['gender', 'Partner', 'Dependents',
In [28]:
                     'PhoneService', 'MultipleLines', 'InternetService', 'OnlineSecurity', 'OnlineBackup', 'DeviceProtection', 'TechSupport', 'StreamingTV', 'StreamingMovies', 'Contract', 'PaperlessBilling', 'PaymentMethod'],drop_fir
            dataset.head()
In [29]:
Out[29]:
                SeniorCitizen tenure MonthlyCharges TotalCharges Churn gender_Male Partner_Yes Depend
            0
                            0
                                                                                                0
                                     1
                                                    29.85
                                                                    29.85
                                                                                0
                                                                                                              1
            1
                                    34
                                                    56.95
                                                                  1889.50
            2
                                     2
                                                                                                              0
                            0
                                                    53.85
                                                                   108.15
                                                                                1
                                                                                                1
            3
                                    45
                                                    42.30
                                                                  1840.75
                                                                                                              0
                            0
                                                    70.70
                                                                                                0
                                                                                                              0
            4
                                     2
                                                                   151.65
                                                                                1
           5 rows × 31 columns
            Feature Scaling
```

73.463013

26.536987

Name: Churn, dtype: float64

No

Yes

Out[25]:

```
In [30]: #required in tenure, MonthlyCharges, TotalCharges
In [31]: from sklearn.preprocessing import StandardScaler
    scaler=StandardScaler()
    scaler_columns=['tenure','MonthlyCharges','TotalCharges']
    dataset[scaler_columns]=scaler.fit_transform(dataset[scaler_columns])
    dataset.head()
```

Out[31]:	SeniorC	itizen	tenure	MonthlyCharges	TotalCharges	Churn	gender_Male	Partner_Yes	Dep
	0	0	-1.277445	-1.160323	-0.994242	0	0	1	
	1	0	0.066327	-0.259629	-0.173244	0	1	0	
	2	0	-1.236724	-0.362660	-0.959674	1	1	0	
	3	0	0.514251	-0.746535	-0.194766	0	1	0	
	4	0	-1.236724	0.197365	-0.940470	1	0	0	
	5 rows × 3	1 colur	mns						
4									•

## Split data into I.V. and D.V

```
In [32]: x=dataset.drop(['Churn'],axis=1)
    y=dataset['Churn']
    x.head(2)
```

Out[32]:		SeniorCitizen	tenure	MonthlyCharges	TotalCharges	gender_Male	Partner_Yes	Dependents_
	0	0	-1.277445	-1.160323	-0.994242	0	1	
	1	0	0.066327	-0.259629	-0.173244	1	0	

2 rows × 30 columns

```
In [33]: y.head(2)
Out[33]: 0    0
1    0
Name: Churn, dtype: int64
```

## Handling imbalance (SMOTE)

```
In [34]:
        import imblearn
         from imblearn.over_sampling import SMOTE
         smote=SMOTE()
         x_sm,y_sm=smote.fit_resample(x,y)
         print(y.value_counts())
         print("********
         print(y_sm.value_counts())
             5174
        0
             1869
        1
        Name: Churn, dtype: int64
         *******
             5174
             5174
        Name: Churn, dtype: int64
In [35]: print(x.shape)
         print("********")
         print(x_sm.shape)
```

```
(7043, 30)
***********
(10348, 30)
```

### Split the data into training and test

```
In [36]: from sklearn.model_selection import train_test_split x_train,x_test,y_train,y_test=train_test_split(x_sm,y_sm,test_size=0.3,random_state
```

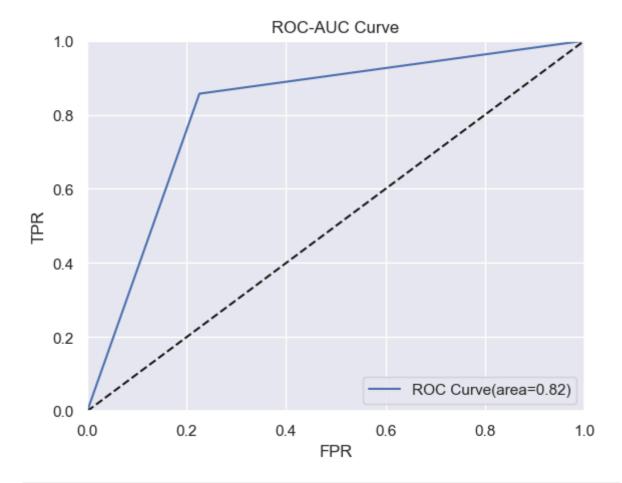
# **Model Building**

### 1. Logistic Regression

```
In [37]: from sklearn.linear_model import LogisticRegression
         logit=LogisticRegression()
         logit.fit(x_train,y_train)
         LogisticRegression()
Out[37]:
In [38]: #predict result
         y_pred_logit_train=logit.predict(x_train)
         y_pred_logit_test=logit.predict(x_test)
In [39]: #evaluate the model
         from sklearn.metrics import confusion matrix, classification report, accuracy score
         print(classification_report(y_test,y_pred_logit_test))
                       precision recall f1-score
                                                       support
                    0
                            0.85
                                      0.77
                                                0.81
                                                          1560
                            0.79
                                      0.86
                    1
                                                0.82
                                                          1545
                                                0.82
                                                          3105
             accuracy
                            0.82 0.82
            macro avg
                                                0.82
                                                          3105
                            0.82
                                                0.82
         weighted avg
                                      0.82
                                                          3105
In [40]:
         print('Confusion matrix is :')
         print(confusion_matrix(y_test,y_pred_logit_test))
         Confusion matrix is :
         [[1208 352]
          [ 221 1324]]
In [41]: | print("Training Accuracy is :",accuracy_score(y_train,y_pred_logit_train))
         print("Test Accuracy is :",accuracy_score(y_test,y_pred_logit_test))
         Training Accuracy is: 0.7987021952229739
         Test Accuracy is: 0.8154589371980676
         #good accuracy, no bias and variance
In [42]:
         #precision- 0.81
         #recall - 0.81
```

## Probability that customers will churn

```
dataset['Probability']=logit.predict proba(dataset[x test.columns])[:,1]
In [43]:
          dataset.head()
In [44]:
Out[44]:
             SeniorCitizen
                            tenure MonthlyCharges TotalCharges Churn gender_Male Partner_Yes Dep
                       0 -1.277445
                                                                                0
          0
                                         -1.160323
                                                      -0.994242
                                                                   0
                                                                                           1
                       0 0.066327
                                         -0.259629
                                                      -0.173244
                                                                   0
                                                                                           0
          1
                                                                                1
          2
                       0 -1.236724
                                         -0.362660
                                                      -0.959674
                                                                                1
                                                                                           0
                                                                   1
          3
                         0.514251
                                         -0.746535
                                                      -0.194766
                                                                   0
                                                                                1
                                                                                           0
                                                                                0
                                                                                           0
          4
                       0 -1.236724
                                          0.197365
                                                      -0.940470
                                                                   1
         5 rows × 32 columns
          dataset2=pd.concat([dataset1['customerID'],dataset['Probability']],axis=1)
In [48]:
          #datset2=dataset1['customerID']+dataset['Probability']
          dataset2.head()
              customerID Probability
Out[48]:
            7590-VHVEG
                           0.778890
          1 5575-GNVDE
                           0.106710
          2 3668-QPYBK
                           0.291422
          3 7795-CFOCW
                           0.104462
          4 9237-HQITU
                           0.901783
          ROC-AUC
          from sklearn.metrics import roc_auc_score
In [49]:
          logit_roc_auc=roc_auc_score(y_test,y_pred_logit_test)
          print(logit_roc_auc)
                                                   # 81% accuracy
          0.8156584515807818
          #ROC-AUC Curve
In [50]:
          from sklearn.metrics import roc_curve
          fpr,tpr,thresholds=roc curve(y test,y pred logit test)
In [51]:
          plt.figure()
          plt.plot(fpr,tpr,label='ROC Curve(area=%0.2f)'%logit_roc_auc)
          plt.plot([0,1],[0,1],'k--')
          plt.xlim([0.0,1.0])
          plt.ylim([0.0,1.0])
          plt.xlabel("FPR")
          plt.ylabel("TPR")
          plt.title('ROC-AUC Curve')
          plt.legend(loc='lower right')
          plt.show()
```



In [52]: #ROC curve above AUC, good model

#### 2. Decision Tree Model

```
In [56]:
         from sklearn.tree import DecisionTreeClassifier
          dtree=DecisionTreeClassifier(criterion='entropy')
                                                              #criterion gini / entropy, chec
         dtree.fit(x_train,y_train)
         DecisionTreeClassifier(criterion='entropy')
Out[56]:
         y pred dt train=dtree.predict(x train)
In [57]:
         y_pred_dt_test=dtree.predict(x_test)
In [58]: print("Training Accuracy is :",accuracy_score(y_train,y_pred_dt_train))
          print("Test Accuracy is :",accuracy score(y test,y pred dt test))
         Training Accuracy is: 0.9987574209581666
         Test Accuracy is : 0.7758454106280194
         #high variance (DT is overfitting the model) ---- solution- Bagging
In [59]:
```

### 3. Random Forest

```
In [60]: from sklearn.ensemble import RandomForestClassifier
    rf=RandomForestClassifier(n_estimators=500,criterion='entropy',random_state=101)
    rf.fit(x_train,y_train)
```

Out[60]: RandomForestClassifier(criterion='entropy', n\_estimators=500, random\_state=101)

```
In [61]: y_pred_rf_train=rf.predict(x_train)
         y_pred_rf_test=rf.predict(x_test)
         print("Training Accuracy is :",accuracy_score(y_train,y_pred_rf_train))
In [62]:
         print("Test Accuracy is :",accuracy_score(y_test,y_pred_rf_test)) #(variance less
         Training Accuracy is: 0.9987574209581666
         Test Accuracy is: 0.8553945249597423
         #Cross validation or XGBoost now for improving model more
In [63]:
         4 XGBoost
In [72]: from xgboost import XGBClassifier
         xgb=XGBClassifier()
         xgb.fit(x_train,y_train)
         XGBClassifier(base score=None, booster=None, callbacks=None,
Out[72]:
                       colsample bylevel=None, colsample bynode=None,
                       colsample_bytree=None, early_stopping_rounds=None,
                       enable_categorical=False, eval_metric=None, feature_types=None,
                       gamma=None, gpu_id=None, grow_policy=None, importance_type=None,
                       interaction_constraints=None, learning_rate=None, max_bin=None,
                       max_cat_threshold=None, max_cat_to_onehot=None,
                       max_delta_step=None, max_depth=None, max_leaves=None,
                       min_child_weight=None, missing=nan, monotone_constraints=None,
                       n_estimators=100, n_jobs=None, num_parallel_tree=None,
                       predictor=None, random state=None, ...)
In [73]: | #predict
         y_pred_xgb_train=xgb.predict(x_train)
         y_pred_xgb_test=xgb.predict(x_test)
In [74]:
         #evaluate
         print('Train accuracy: ',accuracy_score(y_train,y_pred_xgb_train))
         print('Test accuracy: ',accuracy_score(y_test,y_pred_xgb_test))
         Train accuracy: 0.9486400662708823
         Test accuracy: 0.8312399355877617
         5.AdaBoost
         from sklearn.ensemble import AdaBoostClassifier
In [75]:
         adaboost=AdaBoostClassifier(n estimators=100,random state=101)
         adaboost.fit(x train,y train)
         AdaBoostClassifier(n_estimators=100, random_state=101)
Out[75]:
In [76]: #predict
         y_pred_ada_train=adaboost.predict(x_train)
         y pred ada test=adaboost.predict(x test)
In [77]: #evaluate
         print('Train accuracy: ',accuracy_score(y_train,y_pred_ada_train))
         print('Test accuracy: ',accuracy_score(y_test,y_pred_ada_test))
```

Train accuracy: 0.794008007731603 Test accuracy: 0.8054750402576489

# 6.PyCaret Package

In [78]: from pycaret.classification import \*
In [79]: classif=setup(data=dataset,target='Churn',session\_id=123)

Description Value 0 Session id 123 Target Churn 2 Target type Binary 3 Original data shape (7043, 32) 4 Transformed data shape (7043, 32) Transformed train set shape (4930, 32) 6 Transformed test set shape (2113, 32)31 7 Numeric features 8 Preprocess True 9 Imputation type simple Numeric imputation 10 mean 11 Categorical imputation mode StratifiedKFold 12 Fold Generator Fold Number 10 13 **CPU** Jobs -1 14 15 Use GPU False Log Experiment 16 False 17 Experiment Name clf-default-name 18 USI 54d8

In [80]: compare\_models()

	Model	Accuracy	AUC	Recall	Prec.	F1	Карра	МСС	TT (Sec)
lr	Logistic Regression	0.8022	0.8449	0.5520	0.6521	0.5974	0.4675	0.4707	0.5480
ada	Ada Boost Classifier	0.7990	0.8410	0.5131	0.6563	0.5745	0.4458	0.4524	0.1760
ridge	Ridge Classifier	0.7984	0.0000	0.5528	0.6416	0.5929	0.4600	0.4629	0.0110
lda	Linear Discriminant Analysis	0.7984	0.8412	0.5925	0.6291	0.6096	0.4740	0.4748	0.0300
gbc	Gradient Boosting Classifier	0.7980	0.8436	0.5123	0.6526	0.5730	0.4434	0.4496	0.4670
lightgbm	Light Gradient Boosting Machine	0.7895	0.8297	0.5131	0.6270	0.5629	0.4264	0.4310	0.2730
rf	Random Forest Classifier	0.7874	0.8244	0.4840	0.6309	0.5469	0.4113	0.4180	0.2560
svm	SVM - Linear Kernel	0.7809	0.0000	0.4596	0.6389	0.5007	0.3756	0.3958	0.0170
xgboost	Extreme Gradient Boosting	0.7803	0.8205	0.5070	0.6032	0.5499	0.4063	0.4096	0.4930
et	Extra Trees Classifier	0.7732	0.8080	0.4695	0.5923	0.5223	0.3767	0.3818	0.2670
knn	K Neighbors Classifier	0.7684	0.7804	0.5222	0.5688	0.5437	0.3891	0.3902	0.0420
dummy	Dummy Classifier	0.7347	0.5000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0190
dt	Decision Tree Classifier	0.7245	0.6553	0.5046	0.4827	0.4927	0.3041	0.3046	0.0150
nb	Naive Bayes	0.6846	0.8226	0.8571	0.4505	0.5905	0.3721	0.4235	0.0110
qda	Quadratic Discriminant Analysis	0.4540	0.6067	0.9320	0.3193	0.4754	0.1326	0.2266	0.0250

0%| Processing: | 0/65 [00:00<?, ?it/s]

Out[80]: LogisticRegression(C=1.0, class\_weight=None, dual=False, fit\_intercept=True,

intercept\_scaling=1, l1\_ratio=None, max\_iter=1000,

multi\_class='auto', n\_jobs=None, penalty='12',
random\_state=123, solver='lbfgs', tol=0.0001, verbose=0,

warm\_start=False)

In [81]: #best model- logistic reg logistic=create\_model("lr")

	Accuracy	AUC	Recall	Prec.	F1	Kappa	MCC
Fold							
0	0.7870	0.8425	0.5538	0.6050	0.5783	0.4362	0.4370
1	0.7931	0.8285	0.5538	0.6207	0.5854	0.4481	0.4494
2	0.8053	0.8202	0.5725	0.6522	0.6098	0.4808	0.4826
3	0.7992	0.8427	0.5344	0.6481	0.5858	0.4549	0.4586
4	0.7688	0.8235	0.5191	0.5714	0.5440	0.3896	0.3904
5	0.7951	0.8342	0.5420	0.6339	0.5844	0.4495	0.4520
6	0.8174	0.8666	0.5725	0.6881	0.6250	0.5057	0.5094
7	0.8053	0.8586	0.5420	0.6636	0.5966	0.4700	0.4742
8	0.8235	0.8659	0.5725	0.7075	0.6329	0.5185	0.5235
9	0.8276	0.8662	0.5573	0.7300	0.6320	0.5221	0.5302
Mean	0.8022	0.8449	0.5520	0.6521	0.5974	0.4675	0.4707
Std	0.0169	0.0174	0.0170	0.0454	0.0265	0.0389	0.0406
Proces	ssing:	0%		0/4 [	00:00<	?, ?it/	s]

In [82]: #further tuning

tuned=tune\_model(logistic)

	Accuracy	AUC	Recall	Prec.	F1	Карра	МСС
Fold							
0	0.7890	0.8426	0.5615	0.6083	0.5840	0.4430	0.4436
1	0.7951	0.8286	0.5538	0.6261	0.5878	0.4521	0.4536
2	0.8032	0.8209	0.5649	0.6491	0.6041	0.4740	0.4760
3	0.8012	0.8432	0.5420	0.6514	0.5917	0.4618	0.4652
4	0.7728	0.8234	0.5267	0.5798	0.5520	0.4003	0.4011
5	0.7951	0.8335	0.5496	0.6316	0.5878	0.4523	0.4543
6	0.8195	0.8679	0.5725	0.6944	0.6276	0.5099	0.5141
7	0.8053	0.8590	0.5344	0.6667	0.5932	0.4673	0.4722
8	0.8235	0.8662	0.5725	0.7075	0.6329	0.5185	0.5235
9	0.8276	0.8665	0.5573	0.7300	0.6320	0.5221	0.5302
Mean	0.8032	0.8452	0.5535	0.6545	0.5993	0.4701	0.4734
Std	0.0159	0.0176	0.0147	0.0440	0.0242	0.0360	0.0379

Processing: 0% | 0/7 [00:00<?, ?it/s] Fitting 10 folds for each of 10 candidates, totalling 100 fits

In [83]: evaluate\_model(tuned)

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In [ ]: