```
In [1]: import warnings
        warnings.simplefilter("ignore")
        import joblib
In [2]: import pandas as pd
        import numpy as np
        import seaborn as sns
        import matplotlib.pyplot as plt
        %matplotlib inline
        import scipy.stats as stats
        from scipy.stats import zscore
In [3]: from imblearn.over_sampling import SMOTE
        from sklearn.preprocessing import StandardScaler
        from sklearn.model_selection import train_test_split
        from sklearn.linear_model import LogisticRegression
        from sklearn.svm import SVC
        from sklearn.tree import DecisionTreeClassifier
        from sklearn.ensemble import RandomForestClassifier
        from sklearn.ensemble import ExtraTreesClassifier
        from sklearn.neighbors import KNeighborsClassifier
In [4]: from sklearn import metrics
        from sklearn.metrics import classification_report
        from sklearn.metrics import accuracy_score
        from sklearn.model_selection import cross_val_score
        from sklearn.model selection import GridSearchCV
        from sklearn.metrics import roc curve
In [5]: df = pd.read_csv("winequality-red.csv")
In [6]: df
Out[6]:
```

	fixed acidity	volatile acidity	citric acid	residual sugar	chlorides	free sulfur dioxide	total sulfur dioxide	density	pН	sulphates	alcohol	quality
0	7.4	0.700	0.00	1.9	0.076	11.0	34.0	0.99780	3.51	0.56	9.4	5
1	7.8	0.880	0.00	2.6	0.098	25.0	67.0	0.99680	3.20	0.68	9.8	5
2	7.8	0.760	0.04	2.3	0.092	15.0	54.0	0.99700	3.26	0.65	9.8	5
3	11.2	0.280	0.56	1.9	0.075	17.0	60.0	0.99800	3.16	0.58	9.8	6
4	7.4	0.700	0.00	1.9	0.076	11.0	34.0	0.99780	3.51	0.56	9.4	5
1594	6.2	0.600	80.0	2.0	0.090	32.0	44.0	0.99490	3.45	0.58	10.5	5
1595	5.9	0.550	0.10	2.2	0.062	39.0	51.0	0.99512	3.52	0.76	11.2	6
1596	6.3	0.510	0.13	2.3	0.076	29.0	40.0	0.99574	3.42	0.75	11.0	6
1597	5.9	0.645	0.12	2.0	0.075	32.0	44.0	0.99547	3.57	0.71	10.2	5
1598	6.0	0.310	0.47	3.6	0.067	18.0	42.0	0.99549	3.39	0.66	11.0	6

1599 rows × 12 columns

In [7]: df.shape

Out[7]: (1599, 12)

```
In [8]: df.isnull().sum()
Out[8]: fixed acidity
                              0
       volatile acidity
                              0
       citric acid
                              0
       residual sugar
                              0
       chlorides
                              0
       free sulfur dioxide
                              0
       total sulfur dioxide
                              0
       density
       рΗ
       sulphates
                              0
       alcohol
                              0
       quality
                              0
       dtype: int64
In [9]: df.info()
       <class 'pandas.core.frame.DataFrame'>
        RangeIndex: 1599 entries, 0 to 1598
       Data columns (total 12 columns):
            Column
                                 Non-Null Count Dtype
        ---
            -----
                                 -----
            fixed acidity
                                 1599 non-null float64
            volatile acidity
                                 1599 non-null float64
            citric acid
                                1599 non-null float64
           residual sugar
        3
                                1599 non-null float64
        4
            chlorides
                                1599 non-null float64
        5
            free sulfur dioxide 1599 non-null float64
            total sulfur dioxide 1599 non-null float64
        6
                                 1599 non-null float64
        7
            density
```

1599 non-null float64

float64

float64

int64

1599 non-null

1599 non-null

1599 non-null

dtypes: float64(11), int64(1)
memory usage: 150.0 KB

In [10]: df.describe()

8

9

рΗ

10 alcohol

11 quality

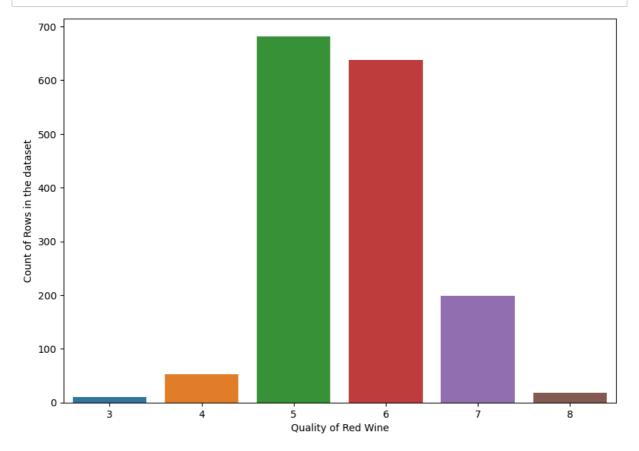
sulphates

## Out[10]:

	fixed acidity	volatile acidity	citric acid	residual sugar	chlorides	free sulfur dioxide	total sulfur dioxide	dens
count	1599.000000	1599.000000	1599.000000	1599.000000	1599.000000	1599.000000	1599.000000	1599.0000
mean	8.319637	0.527821	0.270976	2.538806	0.087467	15.874922	46.467792	0.9967
std	1.741096	0.179060	0.194801	1.409928	0.047065	10.460157	32.895324	0.0018
min	4.600000	0.120000	0.000000	0.900000	0.012000	1.000000	6.000000	0.9900
25%	7.100000	0.390000	0.090000	1.900000	0.070000	7.000000	22.000000	0.9956
50%	7.900000	0.520000	0.260000	2.200000	0.079000	14.000000	38.000000	0.9967
75%	9.200000	0.640000	0.420000	2.600000	0.090000	21.000000	62.000000	0.9978
max	15.900000	1.580000	1.000000	15.500000	0.611000	72.000000	289.000000	1.0036

```
In [11]: df.skew()
Out[11]: fixed acidity
                                  0.982751
         volatile acidity
                                  0.671593
         citric acid
                                  0.318337
         residual sugar
                                  4.540655
         chlorides
                                  5.680347
         free sulfur dioxide
                                  1.250567
         total sulfur dioxide
                                  1.515531
         density
                                  0.071288
         рΗ
                                  0.193683
         sulphates
                                  2.428672
         alcohol
                                  0.860829
         quality
                                  0.217802
         dtype: float64
```

```
In [12]: plt.figure(figsize=(10,7))
    sns.countplot(x ='quality', data = df)
    plt.xlabel('Quality of Red Wine')
    plt.ylabel('Count of Rows in the dataset')
    plt.show()
```



```
In [13]: index=0
            labels = df['quality']
            features = df.drop('quality', axis=1)
            for col in features.items():
                  plt.figure(figsize=(10,5))
                  sns.barplot(x=labels, y=col[index], data=df, color="deeppink")
            plt.tight_layout()
            plt.show()
                 0.14
                 0.12
             chlorides
0.10
                 0.06
                 0.04
                 0.02
                 0.00
                                                                5
                                                                                                   ż
                              3
                                               4
                                                                                  6
                                                                                                                    8
                                                                      quality
                 17.5
In [14]: fig, ax = plt.subplots(ncols=6, nrows=2, figsize=(15,10))
            index = 0
            ax = ax.flatten()
            for col, value in df.items():
                  sns.boxplot(y=col, data=df, ax=ax[index])
            plt.tight_layout(pad=0.5, w_pad=0.7, h_pad=5.0)
            plt.show()
                                                      1.0
                                   1.4
                                   1.2
               12
                                                                                                                dioxide
40
                                 1.0
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              fixed acidity
                                                    o.4
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alcohol
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              150
            total s
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                                                      3.2
                                 0.994
               50
                                                                         0.50
```

```
In [15]: fig, ax = plt.subplots(ncols=6, nrows=2, figsize=(15,10))
             index = 0
             ax = ax.flatten()
             for col, value in df.items():
                   sns.distplot(value, ax=ax[index], hist=False, color="g", kde_kws={"shade": True})
                   index += 1
             plt.tight_layout(pad=0.5, w_pad=0.7, h_pad=5.0)
             plt.show()
                                                                                                                            0.05
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                                                                                                             10.0 12.5 15.0
alcohol
                         100 200 300
                                          0.990 0.995 1.000 1.005
                                                                  3.0
                                                                      3.5
pH
                                                                                         sulphates
                                                                                                                                     quality
In [16]: lower_triangle = np.tril(df.corr())
             plt.figure(figsize=(15,10))
             sns.heatmap(df.corr(), vmin=-1, vmax=1, annot=True, square=True, fmt='0.3f',
                               annot kws={'size':10}, cmap="Spectral", mask=lower triangle)
             plt.xticks(fontsize=12)
             plt.yticks(fontsize=12)
             plt.show()
                                                                                                                                      1.00
                     fixed acidity -
                                           -0.256
                                                         0.115
                                                                 0.094
                                                                        -0.154
                                                                               -0.113
                                                                                                     0.183
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                                                                                                                    0.124
                   volatile acidity -
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                                                                        -0.011
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                                                                                      0.022
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                       citric acid -
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                                                                 0.204
                                                                        -0.061
                                                                               0.036
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                                                                                                     0.313
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                                                                                                                                      0.50
                   residual sugar -
                                                                 0.056
                                                                        0.187
                                                                               0.203
                                                                                      0.355
                                                                                              -0.086
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                        chlorides -
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               free sulfur dioxide -
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               total sulfur dioxide -
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```

```
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                                                          0.067
                                                                     42.0 0.99549 3.39
                                                                                               0.66
                                                                                                        11.0
                                                                                                                  6
In [18]:
           df.shape
Out[18]: (1599, 11)
In [19]: z=np.abs(zscore(df))
           threshold=3
           np.where(z>3)
Out[19]: (array([
                                                     19,
                                                            33,
                                                                    38,
                                                                           42,
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                     1269, 1269, 1270, 1270, 1288, 1289, 1299, 1299, 1300, 1312, 1316,
                     1319, 1319, 1321, 1367, 1370, 1370, 1372, 1372, 1374, 1374, 1434,
                     1434, 1435, 1435, 1469, 1474, 1474, 1476, 1476, 1478, 1493, 1496,
                     1505, 1558, 1570, 1574, 1589], dtype=int64),
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                    dtype=int64))
```

In [17]: df = df.drop('free sulfur dioxide', axis=1)

df

```
In [20]: df=df[(z<3).all(axis=1)]
df</pre>
```

Out[20]:

	fixed acidity	volatile acidity	citric acid	residual sugar	chlorides	total sulfur dioxide	density	рН	sulphates	alcohol	quality
0	7.4	0.700	0.00	1.9	0.076	34.0	0.99780	3.51	0.56	9.4	5
1	7.8	0.880	0.00	2.6	0.098	67.0	0.99680	3.20	0.68	9.8	5
2	7.8	0.760	0.04	2.3	0.092	54.0	0.99700	3.26	0.65	9.8	5
3	11.2	0.280	0.56	1.9	0.075	60.0	0.99800	3.16	0.58	9.8	6
4	7.4	0.700	0.00	1.9	0.076	34.0	0.99780	3.51	0.56	9.4	5
1594	6.2	0.600	0.08	2.0	0.090	44.0	0.99490	3.45	0.58	10.5	5
1595	5.9	0.550	0.10	2.2	0.062	51.0	0.99512	3.52	0.76	11.2	6
1596	6.3	0.510	0.13	2.3	0.076	40.0	0.99574	3.42	0.75	11.0	6
1597	5.9	0.645	0.12	2.0	0.075	44.0	0.99547	3.57	0.71	10.2	5
1598	6.0	0.310	0.47	3.6	0.067	42.0	0.99549	3.39	0.66	11.0	6

1464 rows × 11 columns

```
In [21]: df.shape
```

Out[21]: (1464, 11)

```
In [22]: X = df.drop('quality', axis=1)
Y = df['quality']
```

```
In [23]: Y.value_counts()
```

Out[23]: 5 624 6 590 7 187 4 47

Name: quality, dtype: int64

```
In [25]: Y.value_counts()
```

Out[25]: 5 624 6 624 7 624 4 624 8 624

Name: quality, dtype: int64

```
In [26]: Y = Y.apply(lambda y value:1 if y value>=7 else 0)
Out[26]:
          0
                   0
          1
                   0
          2
                   0
          3
                   0
          4
                   0
          3115
                   1
          3116
                   1
          3117
                   1
          3118
                   1
          3119
                   1
          Name: quality, Length: 3120, dtype: int64
In [27]: | scaler = StandardScaler()
          X = pd.DataFrame(scaler.fit_transform(X), columns=X.columns)
          Х
Out[27]:
                                                                    total
                    fixed
                            volatile
                                       citric
                                              residual
                                                       chlorides
                                                                    sulfur
                                                                            density
                                                                                         pH sulphates
                                                                                                         alcoh
                   acidity
                            acidity
                                        acid
                                                sugar
                                                                  dioxide
              0 -0.674572
                          1.058550
                                   -1.509054
                                             -0.632486
                                                       -0.143104
                                                                -0.109382
                                                                          0.826963
                                                                                    1.480905
                                                                                              -0.795906
                                                                                                       -1.2499
              1 -0.424371
                          2.083079
                                   -1.509054
                                              0.132699
                                                       1.090815
                                                                 1.146013
                                                                          0.222033 -0.746055
                                                                                              0.113128 -0.8978
                -0.424371
                           1.400060
                                   -1.305310
                                             -0.195238
                                                       0.754292
                                                                 0.651463
                                                                           0.343019
                                                                                    -0.315030
                                                                                              -0.114130 -0.8978
              3
                 1.702331
                          -1.332019
                                    1.343363 -0.632486
                                                       -0.199192
                                                                 0.879717
                                                                           0.947949
                                                                                   -1.033405
                                                                                              -0.644400 -0.8978
                -0.674572
                          1.058550 -1.509054
                                             -0.632486
                                                       -0.143104
                                                                -0.109382
                                                                          0.826963
                                                                                    1.480905
                                                                                              -0.795906 -1.2499
                 0.921982
                          -0.644861
                                    0.932171
                                              0.103514
                                                       -0.389781
                                                                -0.783987
                                                                          -0.319306
                                                                                   -1.009344
                                                                                              0.027444
                                                                                                        0.6519
                                                       -0.529566
           3116
                 0.804813
                         -0.756219
                                    0.873094
                                             -0.256611
                                                                -0.861887
                                                                          -0.085374 -0.465629
                                                                                              0.020764
                                                                                                        0.4327
           3117
                 0.314984 -1.197535
                                    1.043960
                                              0.268330
                                                       0.113565
                                                                 0.729990
                                                                          -0.345116 -1.038017
                                                                                              0.578954
                                                                                                        1.2893
           3118
                 2.278778 -1.169774
                                    2.036494
                                             -0.206492 -0.300370
                                                                -0.367845
                                                                           1.163385
                                                                                   -2.754867
                                                                                              1.286924
                                                                                                       -0.6477
                                    1.001373
                 0.290088 -0.801285
                                             1.468821
                                                                                                       1.1507
          3120 rows × 10 columns
In [28]: X_train, X_test, Y_train, Y_test = train_test_split(X, Y, test_size=0.2, random_state=21
In [29]: | def classify(model, X, Y):
               X_train, X_test, Y_train, Y_test = train_test_split(X, Y, test_size=0.2, random_state
               model.fit(X_train, Y_train)
               pred = model.predict(X_test)
               acc_score = (accuracy_score(Y_test, pred))*100
               print("Accuracy Score:", acc_score)
               class_report = classification_report(Y_test, pred)
               print("\nClassification Report:\n", class_report)
               cv_score = (cross_val_score(model, X, Y, cv=5).mean())*100
               print("Cross Validation Score:", cv_score)
               result = acc_score - cv_score
               print("\nAccuracy Score - Cross Validation Score is", result)
```

In [30]: model=LogisticRegression()
 classify(model, X, Y)

Accuracy Score: 90.06410256410257

Classification Report:

	precision	recall	f1-score	support
0	0.94	0.90	0.92	391
1	0.84	0.90	0.87	233
accuracy			0.90	624
macro avg	0.89	0.90	0.90	624
weighted avg	0.90	0.90	0.90	624

Cross Validation Score: 87.88461538461539

Accuracy Score - Cross Validation Score is 2.1794871794871824

In [31]: model=SVC(C=1.0, kernel='rbf', gamma='auto', random\_state=42)
 classify(model, X, Y)

Accuracy Score: 91.98717948717949

Classification Report:

	precision	recall	f1-score	support
0	0.94	0.93	0.94	391
1	0.89	0.90	0.89	233
accuracy			0.92	624
macro avg	0.91	0.92	0.91	624
weighted avg	0.92	0.92	0.92	624

Cross Validation Score: 90.28846153846153

Accuracy Score - Cross Validation Score is 1.698717948717956

Accuracy Score: 91.82692307692307

Classification Report:

		precision	recall	f1-score	support
	0	0.95	0.92	0.93	391
	1	0.88	0.91	0.89	233
accura	су			0.92	624
macro a	vg	0.91	0.92	0.91	624
weighted a	vg	0.92	0.92	0.92	624

Cross Validation Score: 88.58974358974359

Accuracy Score - Cross Validation Score is 3.237179487179475

In [33]: model=RandomForestClassifier(max\_depth=15, random\_state=111)
 classify(model, X, Y)

Accuracy Score: 95.67307692307693

Classification Report:

	precision	recall	f1-score	support
0	0.97	0.96	0.97	391
1	0.93	0.96	0.94	233
accuracy			0.96	624
macro avg	0.95	0.96	0.95	624
weighted avg	0.96	0.96	0.96	624

Cross Validation Score: 92.56410256410255

Accuracy Score - Cross Validation Score is 3.108974358974379

Accuracy Score: 91.34615384615384

Classification Report:

	precision	recall	f1-score	support
0	0.96	0.90	0.93	391
1	0.85	0.93	0.89	233
accuracy			0.91	624
macro avg	0.90	0.92	0.91	624
weighted avg	0.92	0.91	0.91	624

Cross Validation Score: 88.46153846153847

Accuracy Score - Cross Validation Score is 2.8846153846153726

In [35]: model=ExtraTreesClassifier()
 classify(model, X, Y)

Accuracy Score: 95.83333333333334

Classification Report:

		precision	recall	f1-score	support
	0	0.98	0.96	0.97	391
	1	0.93	0.96	0.95	233
accura	асу			0.96	624
macro a	avg	0.95	0.96	0.96	624
weighted a	avg	0.96	0.96	0.96	624

Cross Validation Score: 93.65384615384616

Accuracy Score - Cross Validation Score is 2.1794871794871824

In [38]: GSCV = GridSearchCV(SVC(), svc\_param, cv=5)

In [39]: GSCV.fit(X\_train,Y\_train)

```
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```
Out[39]:
           ▶ GridSearchCV
           ▶ estimator: SVC
                 ▶ SVC
In [40]: GridSearchCV(cv=5, estimator=SVC(),
                       param_grid={'decision_function_shape': ['ovo', 'ovr'],
                                    'gamma': ['scale', 'auto'],
'kernel': ['poly', 'sigmoid', 'rbf'],
                                    'probability': [True, False],
                                    'random_state': [21, 42, 104],
                                    'shrinking': [True, False], 'verbose': [True, False]})
Out[40]:
          ▶ GridSearchCV
           ▶ estimator: SVC
                 SVC
In [41]: GSCV.best_params_
Out[41]: {'decision_function_shape': 'ovo',
          'gamma': 'scale',
'kernel': 'rbf',
           'probability': True,
           'random_state': 21,
           'shrinking': True,
           'verbose': True}
In [42]: Final_Model = SVC(decision_function_shape='ovo', gamma='scale', kernel='rbf', probability
         Classifier = Final_Model.fit(X_train, Y_train)
         fmod pred = Final Model.predict(X test)
         fmod_acc = (accuracy_score(Y_test, fmod_pred))*100
         print("Accuracy score for the Best Model is:", fmod_acc)
          [LibSVM]Accuracy score for the Best Model is: 91.98717948717949
In [44]:
         !pip install scikit-plot
         Defaulting to user installation because normal site-packages is not writeable
         Requirement already satisfied: scikit-plot in c:\users\admin\appdata\roaming\python\p
         ython311\site-packages (0.3.7)
         Requirement already satisfied: matplotlib>=1.4.0 in c:\programdata\anaconda3\lib\site
          -packages (from scikit-plot) (3.7.1)
         Requirement already satisfied: scikit-learn>=0.18 in c:\programdata\anaconda3\lib\sit
         e-packages (from scikit-plot) (1.2.2)
         Requirement already satisfied: scipy>=0.9 in c:\programdata\anaconda3\lib\site-packag
         es (from scikit-plot) (1.10.1)
         Requirement already satisfied: joblib>=0.10 in c:\programdata\anaconda3\lib\site-pack
         ages (from scikit-plot) (1.2.0)
         Requirement already satisfied: contourpy>=1.0.1 in c:\programdata\anaconda3\lib\site-
         packages (from matplotlib>=1.4.0->scikit-plot) (1.0.5)
         Requirement already satisfied: cycler>=0.10 in c:\programdata\anaconda3\lib\site-pack
         ages (from matplotlib>=1.4.0->scikit-plot) (0.11.0)
```

Requirement already satisfied: fonttools>=4.22.0 in c:\programdata\anaconda3\lib\site

Requirement already satisfied: kiwisolver>=1.0.1 in c:\programdata\anaconda3\lib\site

-packages (from matplotlib>=1.4.0->scikit-plot) (4.25.0)

-packages (from matplotlib>=1.4.0->scikit-plot) (1.4.4)

```
In [68]: from sklearn.metrics import roc_curve
In [66]: disp = metrics.plot_roc_curve(Final_Model, X_test, Y_test)
         disp.figure_.suptitle("ROC Curve")
         plt.show()
         AttributeError
                                                    Traceback (most recent call last)
         Cell In[66], line 1
         ----> 1 disp = metrics.plot_roc_curve(Final_Model, X_test, Y_test)
               2 disp.figure_.suptitle("ROC Curve")
               3 plt.show()
         AttributeError: module 'sklearn.metrics' has no attribute 'plot_roc_curve'
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