```
In [5]:
# Import the libraries
import numpy as np
import os,sys
from sklearn.preprocessing import MinMaxScaler
import pandas as pd
import sklearn
import xgboost
from xgboost import XGBClassifier
from sklearn.model_selection import train_test_split
from sklearn.metrics import accuracy_score
In [7]:
# Datasets
parkinsons = pd.read csv('parkinsons.data')
In [9]:
# Head of data
parkinsons.head()
Out[9]:
            name MDVP:Fo(Hz) MDVP:Fhi(Hz) MDVP:Flo(Hz) MDVP:Jitter(%) MDVP:Jitter(Abs) MDVP:RAP MDVP:PPQ Jitter:DDP
 0 phon_R01_S01_1
                      119.992
                                   157.302
                                               74.997
                                                            0.00784
                                                                           0.00007
                                                                                     0.00370
                                                                                               0.00554
                                                                                                        0.01109
                                                                          0.00008
 1 phon_R01_S01_2
                      122,400
                                  148.650
                                               113.819
                                                            0.00968
                                                                                     0.00465
                                                                                               0.00696
                                                                                                        0.01394
                      116.682
                                   131.111
                                               111.555
                                                            0.01050
                                                                           0.00009
                                                                                     0.00544
                                                                                               0.00781
                                                                                                        0.01633
 2 phon_R01_S01_3
 3 phon_R01_S01_4
                      116.676
                                  137.871
                                               111.366
                                                            0.00997
                                                                          0.00009
                                                                                     0.00502
                                                                                               0.00698
                                                                                                        0.01505
                      116.014
                                                            0.01284
                                                                           0.00011
                                                                                     0.00655
                                                                                               0.00908
 4 phon_R01_S01_5
                                   141.781
                                               110.655
                                                                                                        0.01966
5 rows × 24 columns
4
In [17]:
# Features and labels
Features = parkinsons.loc[:,parkinsons.columns != 'status'].values[:,1:]
labels = parkinsons.loc[:,'status'].values
In [20]:
# Scale the feature between -1 and 1
scaler = MinMaxScaler((-1,1))
X = scaler.fit transform(Features)
y = labels
C:\Users\nasim\Anaconda3\New folder\lib\site-packages\sklearn\utils\validation.py:475:
DataConversionWarning: Data with input dtype object was converted to float64 by MinMaxScaler.
  warnings.warn(msg, DataConversionWarning)
In [21]:
# Train the datasets
X train, X test, Y train, Y test = train test split(X, y, test size = 0.2, random state = 7)
In [24]:
```

Train the Model

```
model = XGBClassifier()
model.fit(X_train,Y_train)
```

Out[24]:

In [28]:

```
# Calculate the accuracy Score
y_pred = model.predict(X_test)
print(accuracy_score(Y_test, y_pred)*100)
```

94.87179487179486

C:\Users\nasim\Anaconda3\New folder\lib\site-packages\sklearn\preprocessing\label.py:151:
DeprecationWarning: The truth value of an empty array is ambiguous. Returning False, but in future this will result in an error. Use `array.size > 0` to check that an array is not empty.
 if diff: