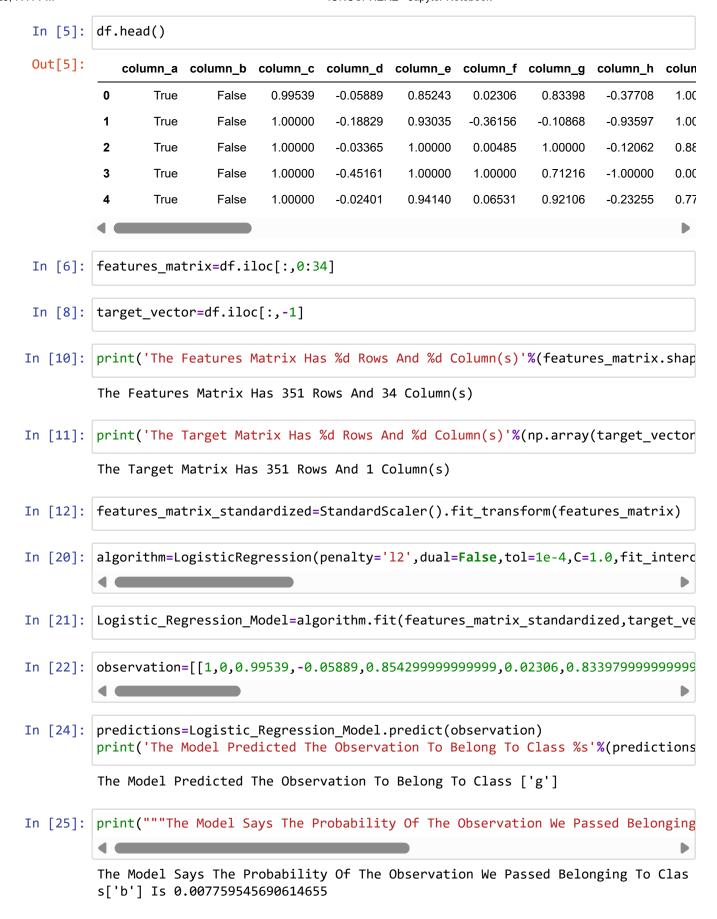
## Ionosphere

```
In [1]:
         import pandas as pd
         import numpy as np
         from sklearn.linear_model import LogisticRegression
         from sklearn.preprocessing import StandardScaler
In [2]: df=pd.read csv(r"C:\Users\rubin\Downloads\ionosphere data.CSV")
         df
Out[2]:
               column_a column_b column_c column_d column_e column_f column_g column_h col
            0
                    True
                              False
                                      0.99539
                                                -0.05889
                                                           0.85243
                                                                     0.02306
                                                                                0.83398
                                                                                          -0.37708
                                                                                                     1
            1
                    True
                              False
                                      1.00000
                                                -0.18829
                                                           0.93035
                                                                     -0.36156
                                                                               -0.10868
                                                                                          -0.93597
                                                                                                     1
            2
                    True
                              False
                                      1.00000
                                                -0.03365
                                                           1.00000
                                                                     0.00485
                                                                                1.00000
                                                                                          -0.12062
                                                                                                    0
            3
                    True
                              False
                                      1.00000
                                                -0.45161
                                                           1.00000
                                                                     1.00000
                                                                                0.71216
                                                                                          -1.00000
                                                                                                    0
                                      1.00000
                                                -0.02401
                                                                     0.06531
            4
                    True
                              False
                                                           0.94140
                                                                                0.92106
                                                                                          -0.23255
                                                                                                    0
                                      0.83508
                                                 0.08298
                                                                     -0.14706
                                                                                0.84349
                                                                                          -0.05567
          346
                    True
                              False
                                                           0.73739
                                                                                                    0
          347
                    True
                              False
                                      0.95113
                                                 0.00419
                                                           0.95183
                                                                     -0.02723
                                                                                0.93438
                                                                                          -0.01920
                                                                                                    0
          348
                    True
                              False
                                      0.94701
                                                -0.00034
                                                           0.93207
                                                                     -0.03227
                                                                                0.95177
                                                                                          -0.03431
                                                                                                    0
          349
                    True
                              False
                                      0.90608
                                                -0.01657
                                                           0.98122
                                                                     -0.01989
                                                                                0.95691
                                                                                          -0.03646
                                                                                                    0
          350
                    True
                              False
                                      0.84710
                                                 0.13533
                                                           0.73638
                                                                     -0.06151
                                                                                0.87873
                                                                                          0.08260
         351 rows × 35 columns
In [3]:
         pd.set option('display.max rows',10000000000)
         pd.set_option('display.max_columns',10000000000)
         pd.set_option('display.width',95)
In [4]: print('This DataFrame has %d Rows and %d columns'%(df.shape))
```

This DataFrame has 351 Rows and 35 columns



In [26]: print()
In [27]: print("""The Model Says The Probabaility Of The Observation We Passed Belongin

The Model Says The Probabaility Of The Observation We Passed Belonging To Class['g'] Is 0.9922404543093853

In []: