```
---------REGRESSION RESULT 5----------
Cluster:
chennai


Raw Data Result
              Generalized Linear Model Regression Results
==============================================================================
Dep. Variable:                  success   No. Observations:                  260
Model:                              GLM   Df Residuals:                      251
Model Family:                  Binomial   Df Model:                            8
Link Function:                    Logit   Scale:                          1.0000
Method:                            IRLS   Log-Likelihood:                 -119.69
Date:                  Thu, 20 Apr 2023   Deviance:                        239.38
Time:                          13:00:55   Pearson chi2:                      255.
No. Iterations:                       5   Pseudo R-squ. (CS):             0.2599
Covariance Type:              nonrobust
==============================================================================
                     coef    std err          z      P>|z|      [0.025      0.975]
------------------------------------------------------------------------------
Intercept         -1.2402      0.192     -6.471      0.000      -1.616      -0.865
danceability      -0.5697      0.185     -3.072      0.002      -0.933      -0.206
energy             1.4700      0.287      5.115      0.000       0.907       2.033
loudness          -0.8184      0.284     -2.881      0.004      -1.375      -0.262
speechiness       -0.3042      0.249     -1.220      0.222      -0.793       0.184
acousticness      -0.4247      0.226     -1.881      0.060      -0.867       0.018
instrumentalness  -0.0992      0.167     -0.593      0.554      -0.427       0.229
valence            0.8754      0.293      2.983      0.003       0.300       1.451
tempo              0.2079      0.222      0.935      0.350      -0.228       0.644
==============================================================================
Raw Data Accuracy: 0.7576923076923077

PCA Data Result
              Generalized Linear Model Regression Results
==============================================================================
Dep. Variable:                  success   No. Observations:                  260
Model:                              GLM   Df Residuals:                      254
Model Family:                  Binomial   Df Model:                            5
Link Function:                    Logit   Scale:                          1.0000
Method:                            IRLS   Log-Likelihood:                 -128.16
Date:                  Thu, 20 Apr 2023   Deviance:                        256.33
Time:                          13:00:55   Pearson chi2:                      260.
No. Iterations:                       5   Pseudo R-squ. (CS):             0.2101
Covariance Type:              nonrobust
==============================================================================
                 coef    std err          z      P>|z|      [0.025      0.975]
------------------------------------------------------------------------------
Intercept     -1.0902      0.169     -6.468      0.000      -1.421      -0.760
PC1            0.4466      0.103      4.334      0.000       0.245       0.649
PC2            0.3764      0.118      3.186      0.001       0.145       0.608
PC3            0.5541      0.139      3.992      0.000       0.282       0.826
PC4            0.3785      0.146      2.601      0.009       0.093       0.664
PC5           -0.3647      0.189     -1.934      0.053      -0.734       0.005
==============================================================================
PCA Data Accuracy: 0.7538461538461538
```