---------REGRESSION RESULT 6----------
Cluster:
chandigarh
ludhiana

Raw Data Result

```
          Generalized Linear Model Regression Results
==============================================================================
Dep. Variable:                 success   No. Observations:                  520
Model:                             GLM   Df Residuals:                      511
Model Family:                 Binomial   Df Model:                            8
Link Function:                   Logit   Scale:                          1.0000
Method:                           IRLS   Log-Likelihood:                -270.41
Date:                 Thu, 20 Apr 2023   Deviance:                       540.83
Time:                         13:01:13   Pearson chi2:                     526.
No. Iterations:                      5   Pseudo R-squ. (CS):             0.1661
Covariance Type:             nonrobust
==============================================================================
                     coef    std err          z      P>|z|      [0.025      0.975]
------------------------------------------------------------------------------
Intercept         -1.0295      0.113     -9.091      0.000      -1.251      -0.808
danceability      -0.3489      0.142     -2.462      0.014      -0.627      -0.071
energy             1.1220      0.184      6.108      0.000       0.762       1.482
loudness          -0.2679      0.151     -1.779      0.075      -0.563       0.027
speechiness       -0.4040      0.141     -2.864      0.004      -0.680      -0.128
acousticness       0.0516      0.150      0.345      0.730      -0.242       0.345
instrumentalness   0.3000      0.139      2.160      0.031       0.028       0.572
valence           -0.5472      0.152     -3.608      0.000      -0.844      -0.250
tempo              0.3625      0.124      2.925      0.003       0.120       0.605
==============================================================================
```
Raw Data Accuracy: 0.7269230769230769

PCA Data Result

```
          Generalized Linear Model Regression Results
==============================================================================
Dep. Variable:                 success   No. Observations:                  520
Model:                             GLM   Df Residuals:                      514
Model Family:                 Binomial   Df Model:                            5
Link Function:                   Logit   Scale:                          1.0000
Method:                           IRLS   Log-Likelihood:                -284.39
Date:                 Thu, 20 Apr 2023   Deviance:                       568.79
Time:                         13:01:13   Pearson chi2:                     533.
No. Iterations:                      4   Pseudo R-squ. (CS):             0.1201
Covariance Type:             nonrobust
==============================================================================
                 coef    std err          z      P>|z|      [0.025      0.975]
------------------------------------------------------------------------------
Intercept     -0.9490      0.106     -8.994      0.000      -1.156      -0.742
PC1            0.2486      0.070      3.537      0.000       0.111       0.386
PC2           -0.1425      0.079     -1.793      0.073      -0.298       0.013
PC3           -0.2022      0.082     -2.456      0.014      -0.364      -0.041
PC4            0.4908      0.119      4.142      0.000       0.259       0.723
PC5           -0.6483      0.145     -4.485      0.000      -0.932      -0.365
==============================================================================
```
PCA Data Accuracy: 0.7