-----REGRESSION RESULT 4-----

Cluster: delhi kochi

Raw Data Result

Generalized Linear Model Regression Results

______ success No. Observations: Dep. Variable: GLM Df Residuals: Model: 511 Binomial Df Model: Model Family: 8 Logit Scale: Link Function: 1.0000 IRLS Log-Likelihood: Method: -306.69 Thu, 20 Apr 2023 Deviance:

13:00:34 Pearson chi2: Date: 613.37 Time: No. Iterations: 4
Covariance Type: nonrobust 4 Pseudo R-squ. (CS): 0.04129

______ coef std err z P>|z| [0.025 ______ Intercept -0.8980 0.100 -8.938 0.000 -1.095 -0.701 danceability 0.3651 0.144 2.539 0.011 0.083 0.647 energy 0.0711 0.166 0.428 0.668 -0.254 0.396 loudness 0.0024 0.176 0.013 0.989 -0.343 0.348 speechiness -0.4630 0.150 -3.089 0.002 -0.757 -0.169 acousticness 0.1555 0.136 1.147 0.252 -0.110 0.421 instrumentalness -0.1332 0.109 -1.228 0.220 -0.346 0.079 valence 0.0343 0.132 0.259 0.795 -0.225 0.293 tempo 0.3502 0.144 2.427 0.015 0.067 0.633 ______

Raw Data Accuracy: 0.698076923076923

PCA Data Result

Generalized Linear Model Regression Results

______ Dep. Variable: success No. Observations: Model: GLM Df Residuals: Binomial Df Model: Model Family: 5 Link Function: Logit Scale: IRLS Log-Likelihood: Method: Thu, 20 Apr 2023 Deviance:

13:00:34 Pearson chi2: Date: Time: No. Iterations: 4 Pseudo R-squ. (CS): Covariance Type: nonrobust

______ coef std err z P > |z| [0.025 0.975] Intercept -0.8661 0.097 -8.897 0.000 -1.057 -0.675
PC1 -0.0103 0.059 -0.174 0.862 -0.127 0.106
PC2 0.0322 0.079 0.409 0.682 -0.122 0.186
PC3 0.0894 0.090 0.997 0.319 -0.086 0.265
PC4 -0.0787 0.100 -0.789 0.430 -0.274 0.117
PC5 0.3884 0.131 2.973 0.003 0.132 0.645 ______

PCA Data Accuracy: 0.698076923076923