-----REGRESSION RESULT 2-----

Cluster: ahmedabad guwahati jaipur kolkata lucknow mumbai patna pune

Raw Data Result

Generalized Linear Model Regression Results

______ Dep. Variable: success No. Observations: Model: GLM Df Residuals: 2071
Model Family: Binomial Df Model: 8
Link Function: Logit Scale: 1.0000
Method: IRLS Log-Likelihood: -1136.8
Date: Thu, 20 Apr 2023 Deviance: 2273.5
Time: 12:59:47 Pearson chi2: 2.54e+03
No. Iterations: 7 Pseudo R-squ. (CS): 0.1207
Covariance Type: nonrobust

	coef	======= std err	z	P> z	[0.025	0.975]		
Intercept danceability energy loudness speechiness acousticness instrumentalness valence tempo	-1.0392 -0.0092 -0.0615 -0.4504 -0.8070 -0.1578 -0.2462 -0.4578 -0.1381	0.060 0.088 0.101 0.091 0.127 0.079 0.154 0.074 0.070	-17.429 -0.105 -0.611 -4.973 -6.348 -2.007 -1.600 -6.149 -1.963	0.000 0.917 0.541 0.000 0.000 0.045 0.110 0.000	-1.156 -0.181 -0.259 -0.628 -1.056 -0.312 -0.548 -0.604 -0.276	-0.922 0.163 0.136 -0.273 -0.558 -0.004 0.055 -0.312 -0.000		

Raw Data Accuracy: 0.7201923076923077

PCA Data Result

Generalized Linear Model Regression Results

______ Dep. Variable: success No. Observations: Model: Model Family: Link Function: GLM Df Residuals: Binomial Df Model:
Logit Scale:
IRLS Log-Likelihood: 1.0000 Method: IRLS Log-Likelihood: -1168.8
Date: Thu, 20 Apr 2023 Deviance: 2337.6
Time: 12:59:47 Pearson chi2: 2.31e+03
No. Iterations: 8 Pseudo R-squ. (CS): 0.09323
Covariance Type: nonrobust

	coef	std err	Z	P> z	[0.025	0.975]			
Intercept	-1.2097	0.088	-13.770	0.000	-1.382	-1.038			
PC1	-0.7146	0.083	-8.645	0.000	-0.877	-0.553			
PC2	-0.4929	0.125	-3.928	0.000	-0.739	-0.247			
PC3	-0.9650	0.223	-4.326	0.000	-1.402	-0.528			
PC4	-2.0582	0.462	-4.454	0.000	-2.964	-1.152			
PC5	0.0084	0.071	0.118	0.906	-0.131	0.147			
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PCA Data Accuracy: 0.6490384615384616