-----REGRESSION RESULT 5-----

Cluster: chennai

## Raw Data Result

## Generalized Linear Model Regression Results

\_\_\_\_\_\_ Dep. Variable: success No. Observations: GLM Df Residuals: Model: 251 Link Function:
Method: Binomial Df Model: 8 Logit Scale: 1.0000 IRLS Log-Likelihood: Thu, 20 Apr 2023 Deviance:
13:00:55 Pearson chi2:
rations: 5 Pseudo R-squ. (CS): -119.69 Date: 239.38 Time: 255. No. Iterations: 0.2599 No. Iterations: 5
Covariance Type: nonrobust

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       0.226		coef	std err	Z	P> z	[0.025	0.975]
	danceability energy loudness speechiness acousticness instrumentalness valence	-0.5697 1.4700 -0.8184 -0.3042 -0.4247 -0.0992 0.8754	0.185 0.287 0.284 0.249 0.226 0.167 0.293	-3.072 5.115 -2.881 -1.220 -1.881 -0.593 2.983	0.002 0.000 0.004 0.222 0.060 0.554 0.003	-0.933 0.907 -1.375 -0.793 -0.867 -0.427 0.300	-0.865 -0.206 2.033 -0.262 0.184 0.018 0.229 1.451 0.644

Raw Data Accuracy: 0.7576923076923077

## PCA Data Result

## Generalized Linear Model Regression Results

\_\_\_\_\_\_ Dep. Variable: success No. Observations: model:
Model Family:
Link Function: Model: GLM Df Residuals: 254 Binomial Df Model:
Logit Scale:
IRLS Log-Likelihood: 5 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			
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PCA Data Accuracy: 0.7538461538461538