

-----REGRESSION RESULT 3-----

Cluster:
bengaluru
hyderabad
imphal

Raw Data Result

Generalized Linear Model Regression Results

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Dep. Variable:	success	No. Observations:	769			
Model:	GLM	Df Residuals:	760			
Model Family:	Binomial	Df Model:	8			
Link Function:	Logit	Scale:	1.0000			
Method:	IRLS	Log-Likelihood:	-459.18			
Date:	Thu, 20 Apr 2023	Deviance:	918.36			
Time:	13:00:12	Pearson chi2:	765.			
No. Iterations:	4	Pseudo R-squ. (CS):	0.03409			
Covariance Type:	nonrobust					
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	coef	std err	z	P> z	[0.025	0.975]

Intercept	-0.8616	0.081	-10.643	0.000	-1.020	-0.703
danceability	-0.0064	0.102	-0.063	0.950	-0.206	0.193
energy	-0.3540	0.130	-2.713	0.007	-0.610	-0.098
loudness	-0.0320	0.112	-0.285	0.776	-0.252	0.188
speechiness	0.1992	0.099	2.017	0.044	0.006	0.393
acousticness	0.0713	0.099	0.723	0.470	-0.122	0.265
instrumentalness	-0.0145	0.110	-0.132	0.895	-0.230	0.201
valence	-0.0290	0.093	-0.311	0.756	-0.212	0.154
tempo	-0.1986	0.084	-2.362	0.018	-0.363	-0.034
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Raw Data Accuracy: 0.6931079323797139

PCA Data Result

Generalized Linear Model Regression Results

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Dep. Variable:	success	No. Observations:	769		
Model:	GLM	Df Residuals:	763		
Model Family:	Binomial	Df Model:	5		
Link Function:	Logit	Scale:	1.0000		
Method:	IRLS	Log-Likelihood:	-462.30		
Date:	Thu, 20 Apr 2023	Deviance:	924.60		
Time:	13:00:13	Pearson chi2:	770.		
No. Iterations:	5	Pseudo R-squ. (CS):	0.02622		
Covariance Type:	nonrobust				
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	coef	std err	z	P> z	[0.025 0.975]

Intercept	-0.8539	0.080	-10.609	0.000	-1.012 -0.696
PC1	-0.1726	0.052	-3.308	0.001	-0.275 -0.070
PC2	-0.0065	0.076	-0.085	0.932	-0.155 0.142
PC3	-0.2023	0.081	-2.501	0.012	-0.361 -0.044
PC4	-0.0681	0.105	-0.650	0.516	-0.273 0.137
PC5	0.1021	0.106	0.961	0.337	-0.106 0.310
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PCA Data Accuracy: 0.6879063719115734