

1. Which are the top three variables in your model which contribute most towards the probability of a lead getting converted?

A- Below is the summary of the final model.

Dep. Variable:	Converted	No. Observations:	6468
Model:	GLM	Df Residuals:	6459
Model Family:	Binomial	Df Model:	8
Link Function:	Logit	Scale:	1.0000
Method:	IRLS	Log-Likelihood:	-2702.2
Date:	Mon, 17 Jul 2023	Deviance:	5404.3
Time:	18:26:24	Pearson chi2:	6.63e+03
No. Iterations:	6	Pseudo R-squ. (CS):	0.3897
Covariance Type:	nonrobust		

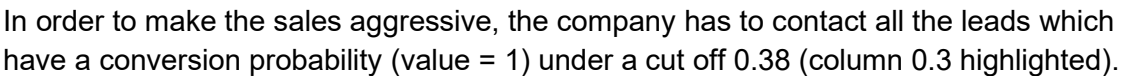
	coef	std err	z	P> z	[0.025	0.975]
const	-1.9324	0.076	-25.435	0.000	-2.081	-1.783
Total Time Spent on Website	4.0544	0.150	26.983	0.000	3.760	4.349
LastNotableActivityD_Modified	-0.8949	0.079	-11.261	0.000	-1.051	-0.739
LeadOriginD_API	0.7522	0.077	9.831	0.000	0.602	0.902
LeadOriginD_Lead Add Form	3.6810	0.180	20.404	0.000	3.327	4.035
LastActivityD_Olark Chat Conversation	-0.5951	0.171	-3.482	0.000	-0.930	-0.260
LastActivityD_SMS Sent	1.1790	0.073	16.096	0.000	1.035	1.323
CurrentOccupationD_Unknown	-1.0617	0.086	-12.335	0.000	-1.230	-0.893
CurrentOccupationD_Working Professional	2.5578	0.186	13.757	0.000	2.193	2.922

By this we can say, Total Time Spent on Website, Lead Add Form (Lead Origin) and Working Professional (Current Occupation) are the top 3 features that contribute to converting a lead.

2. What are the top 3 categorical/dummy variables in the model which should be focused the most on in order to increase the probability of lead conversion?

A- By seeing the model summary of final model, we can say, Lead Add Form (Lead Origin) and Working Professional (Current Occupation) and SMS Sent (Last Activity) are the top 3 dummy variables that should be focused the most on in order to increase the probability of lead conversion.

- A-** Since optimal cut off that we saw was 0.38

[illegible]

- A- To minimize the rate of useless phone calls, the company has to contact all the leads which have conversion probability 1 under 0.7 column as cut off is 0.38.

[illegible]