

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

Ans: Based on the coefficient values from the below screen shot, the top three variables are

- LeadOrigin
- LastNotableActivity
- CurrentOccupation

	coef	std err	z	P> z	[0.025	0.975]
const	-0.8512	0.086	-9.953	0.000	-1.019	-0.684
Do Not Email	-1.0852	0.193	-5.629	0.000	-1.463	-0.707
Total Time Spent on Website	1.1199	0.041	27.139	0.000	1.039	1.201
LeadOrigin_Landing Page Submission	-0.2882	0.091	-3.176	0.001	-0.466	-0.110
LeadOrigin_Lead Add Form	3.4075	0.213	15.974	0.000	2.989	3.826
LeadSource_Olark Chat	1.1437	0.123	9.287	0.000	0.902	1.385
LeadSource_Welingak Website	2.1860	0.746	2.932	0.003	0.725	3.647
LastActivity_Converted to Lead	-1.1773	0.213	-5.525	0.000	-1.595	-0.760
LastActivity_Email Bounced	-1.1929	0.375	-3.179	0.001	-1.928	-0.458
LastActivity_Not Sure	-1.5439	0.453	-3.406	0.001	-2.432	-0.655
LastActivity_Olark Chat Conversation	-1.4204	0.167	-8.497	0.000	-1.748	-1.093
CurrentOccupation_No Information	-1.1827	0.090	-13.212	0.000	-1.358	-1.007
CurrentOccupation_Working Professional	2.6548	0.203	13.051	0.000	2.256	3.053
LastNotableActivity_Had a Phone Conversation	3.2750	1.150	2.848	0.004	1.021	5.529
LastNotableActivity_SMS Sent	1.4162	0.082	17.294	0.000	1.256	1.577
LastNotableActivity_Unreachable	1.6289	0.552	2.952	0.003	0.547	2.710

- 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?

Ans: Top 3 categorical/dummy variables are below

- LeadOrigin_Lead Add Form
- LastNotableActivity_Had a Phone Conversation
- CurrentOccupation_working Professional

	coef	std err	z	P> z	[0.025	0.975]
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3. X Education has a period of 2 months every year during which they hire some interns. The sales team, in particular, has around 10 interns allotted to them. So during this phase, they wish to make the lead conversion more aggressive. So they want almost all of the potential leads (i.e. the customers who have been predicted as 1 by the model) to be converted and hence, want to make phone calls to as much of such people as possible. Suggest a good strategy they should employ at this stage.

Ans: The leads whose score is 100, the conversion chance is high for those leads.

	LeadID	Converted	Conv_Prob	final_predicted	lead_score
	1678	1	0.996471	1	100
	238	1	0.997326	1	100
	1088	1	0.996471	1	100
	1507	1	0.996471	1	100
	587	1	0.996471	1	100
	1773	1	0.995736	1	100
	513	1	0.996471	1	100
	90	1	0.996471	1	100
	1323	1	0.997874	1	100
	1004	1	0.996471	1	100
	170	1	0.996471	1	100
	1359	1	0.997736	1	100
	946	1	0.995146	1	100
	2294	1	0.996471	1	100
	1367	1	0.997279	1	100
	1424	1	0.996471	1	100
	1378	1	0.998179	1	100

4. Similarly, at times, the company reaches its target for a quarter before the deadline. During this time, the company wants the sales team to focus on some new work as well. So during this time, the company's aim is to not make phone calls unless it's extremely necessary, i.e. they want to minimize the rate of useless phone calls. Suggest a strategy they should employ at this stage.

Ans: Sales team should call the people based on their probability of conversion; they can focus on the probability around 70% to 100% and avoid calling all the potential leads. We can fine tune our model and change the rules in the model so that it predicts students as Leads if their probability of conversion is more than 70%.