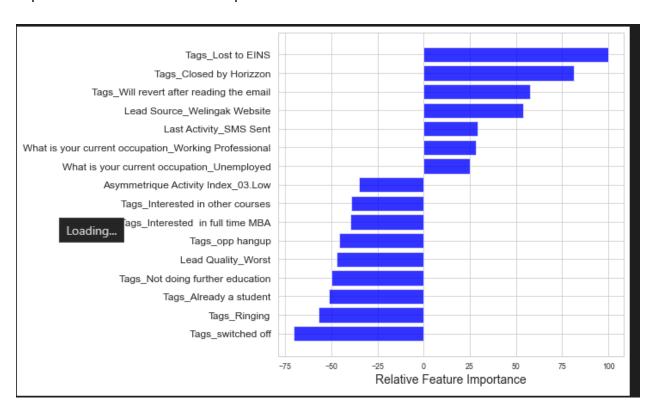
1. Which are the top three variables in your model that contribute most towards the probability of a lead getting converted?

## Answer:

The features used to build the model have been represented below based on their importance in lead conversion as per their coefficient values.



- 1. Tags\_Lost to EINS
- 2. Tags\_Closed by Horizzon
- 3. Tags\_Will revert after reading the email
- 2. What are the top 3 categorical/dummy variables in the model which get maximum focus in order to increase the probability of lead conversion?

## Answer:

- 1. Tags\_Lost to EINS
- 2. Tags Closed by Horizzon
- 3. Tags\_Will revert after reading the email
- 3. X Education has a period of 2 months every year during which they hire few 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

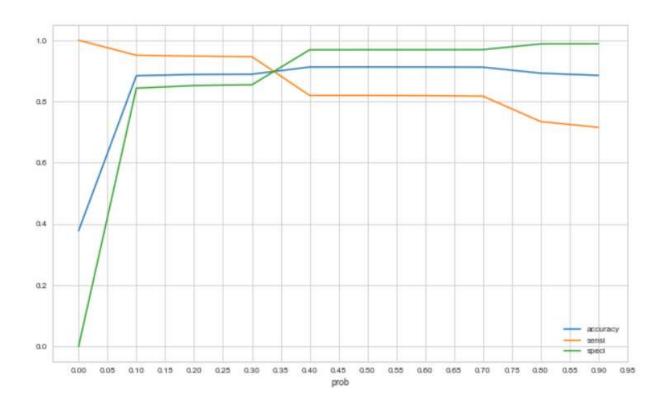
potential leads (i.e. the customers who have been predicted as 1 by the model) to be converted and hence, want to make phone calls to as much of such people as possible. Suggest a good strategy they should employ at this stage.

Ans:

**Sensitivity** with respect to our model can be defined as the ratio of total number of actual Conversions correctly predicted to the total no of actual Conversions.

Similarly, **Specificity** can be defined as the ratio of total no of actual non-Conversions correctly predicted to the total number of actual non-Conversions.

For our model, the below graph shows how the Sensitivity and Specificity rating changes with change in the threshold value:



Now, since X Education has more man-power for these 2 months and they wish to make the lead conversion more aggressive by wanting almost all of the potential leads, we can choose a lower threshold value for Conversion Probability.

This will ensure the Sensitivity rating is very high which in turn will make sure almost all leads who are likely to Convert are identified correctly and the agents can make phone calls to as much of such people as possible.

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.

## Answer:

Following the similar logic and context from the previous question, High Specificity implies that our model will correctly identify almost all leads who are not likely to Convert. It will do that at the cost of losing out some low Conversion rate risky leads to the competition, i.e. it will misclassify some Conversion cases as non-Conversions.

Therefore, since X Education has already reached its target for a quarter and doesn't want to make phone calls unless it's extremely necessary, i.e. they want to minimize the rate of useless phone calls, we can choose a **higher threshold value for Conversion Probability**.