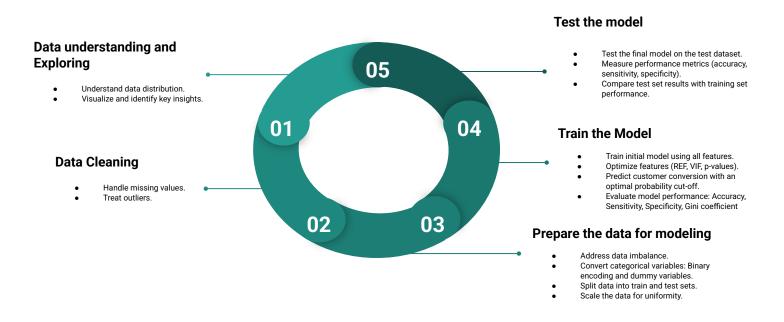
Lead Scoring Case Study

Problem Statement

Identify the set of leads of X Education so that the lead conversion rate should go up and the sales team of the company focus more on communication with the potential leads rather than making calls to every customer.

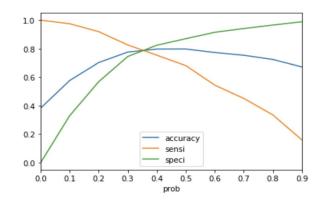


Model Features

Features	Coefficient	Impacts (On decreasing order)
Lead Source_Welingak Website	4.5256	Positive
Lead Source_Reference	3.1268	Positive
Last Activity_Olark Chat Conversation	-2.8298	Negative
Last Activity_Converted to Lead	-2.4484	Negative
Last Activity_Form Submitted on Website	-1.9713	Negative
Last Activity_Email Bounced	-1.8597	Negative
Last Activity_Email Link Clicked	-1.6500	Negative
Last Activity_Page Visited on Website	-1.5718	Negative
Do Not Email	-1.3403	Negative
Lead Source_Direct Traffic	-1.3241	Negative
Lead Source_Referral Sites	-1.2794	Negative
Total Time Spent on Website	1.1267	Positive
Last Activity_Email Opened	-1.1030	Negative
Lead Source_Organic Search	-1.0773	Negative
Lead Source_Google	-0.9545	Negative

Evaluation Matrix

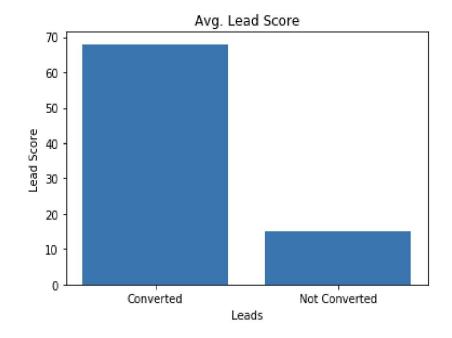
Measures	Train set	Test set
Accuracy	0.79	0.79
Sensitivity (No. of correctly predicted YES)	0.79	0.79
Specificity (No. of correctly predicted NOs)	0.78	0.78
Gini (ROC curve area)	0.86	



- The optimal predicted probability for a customer to be converted is 0.35.
- The model demonstrates strong performance with good accuracy, sensitivity, and specificity.
- It achieves a balanced trade-off among accuracy, sensitivity, and specificity, ensuring reliable predictions.

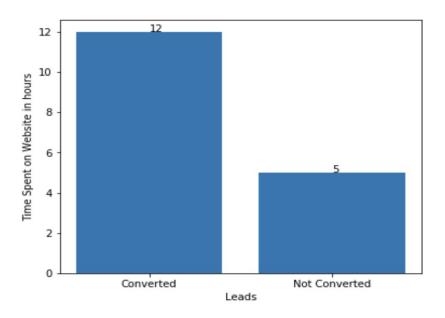
Lead Score

- The Lead Score, ranging from 0 to 100, reflects the probability of a customer converting.
- A higher Lead Score indicates a greater likelihood of conversion.
- Customers expected to convert have an average Lead Score of 68.
- Customers not expected to convert have an average Lead Score of 15.



Average Total Time Spent on Website

- Converted customers spend an average of 12 hours on the website.
- Non-converted customers spend an average of 5 hours on the website.



Business recommendation for higher conversion rate

Highly Likely to be Converted Leads:

- Lead Score exceeds 68.
- 2. Total time spent on the website is over 12 hours.
- 3. Lead sources are either Welingak Website or Reference.

Very Less Likely to be Converted Leads:

- 1. Customers who opted for the "Do Not Email" option.
- 2. Lead Score is below 15.
- 3. Total time spent on the website is under 5 hours.
- 4. Lead sources include Direct Traffic, Referral Sites, Organic Search, or Google.
- 5. Last recorded activity includes any of the following:
 - Olark chat conversation
 - Page visited on the website
 - o Email bounced
 - Form submitted on the website
 - Email link clicked

Thank You!