## **SUMMARY:**

Introduction X Education sells online courses to industry professionals. It markets its courses on different channels and do secure lot of leads. Unfortunately, though, their respective lead conversion rate is around 30%, which is a low turnaround. The company requires to build a regression model to help identify hot leads and clients who have higher chance of Conversion. CEO's target for lead conversion rate is around 80%.

## Model:

- 1. The logistic regression Model that was built, achieved a good 90% accuracy, with similar numbers in Specificity and Sensitivity, hence exceeding CEO's expectations of 80%.
- 2. Models performed as

a. Accuracy: 92%b. Sensitivity: 90%c. Specificity: 93%d. Precision: 87%

e. Recall: 90%

3. These stats on train and test data were close and hence shows a good model as an outcome.

## **Recommendations and Observations:**

- 1. There are a quite a number of leads in the initial stage but only a few of them are converted into paying clients for the X company.
- 2. The most numbers of leads are from INDIA and in terms of city highest number are from Mumbai. Hence X Ed company can focus on expanding its footprint in other metropolitan cities in India like Delhi, Chennai etc. They can also consider their presence in other countries.
- 3. Working professionals and especially those in Management style profiles to be aggressively targeted as they have high conversion rate and may be financially better off to afford to high fees.
- 4. Clients those who spend a lot of time on the website and visit the site more often, could be hot leads.
- 5. Clients who respond to the SMS and part in Olark Chat conversations have high conversion rate.
- 6. Hence the company should focus on making the website more interactive, user friendly with good Chat features.
- 7. 'Reference' also has high lead rate and thus incentives or discounts for providing reference that convert to lead, should be offered.