



LEAD SCORING CASE STUDY

FOCUSED BUSINESS APPROACH USING LOGISTIC
REGRESSION TECHNIQUE

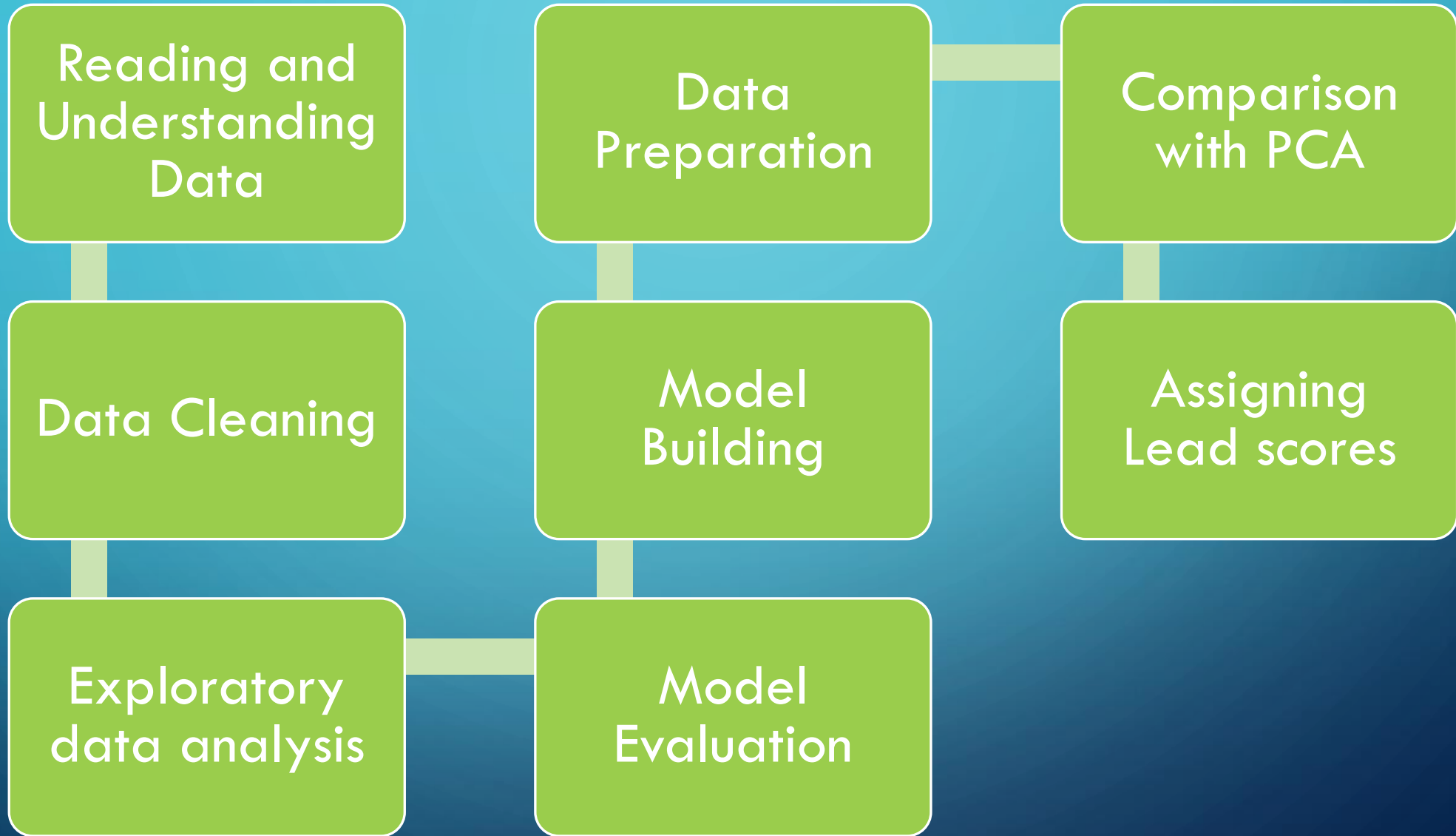
RAINA SHARMA

BUSINESS OBJECTIVE

- To help X Education select most promising leads that are most likely to convert into paying customers.

METHODOLOGY

To build a Logistic Regression Model that assigns lead scores to all leads such that the customers with higher lead score will have a higher conversion chance.



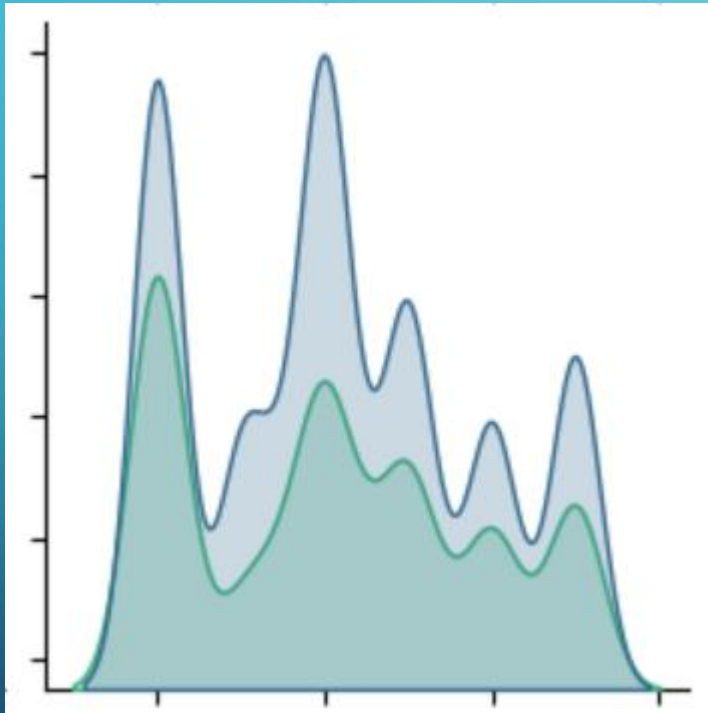
DATA VISUALIZATION

The Page views per visit is highly correlated to Total Visit More the Total Time Spent on Website highest is the rate of conversion.

Converted

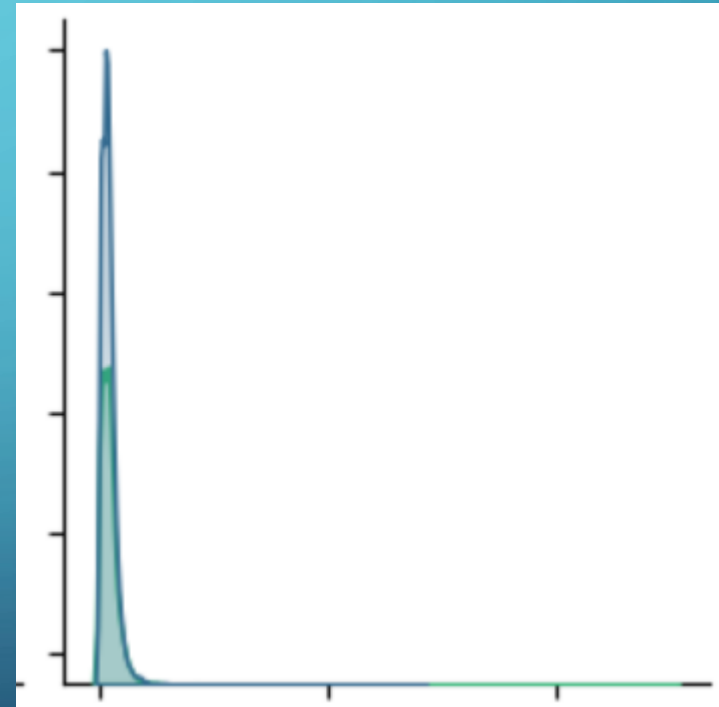
● 0
● 1

Page views per visits



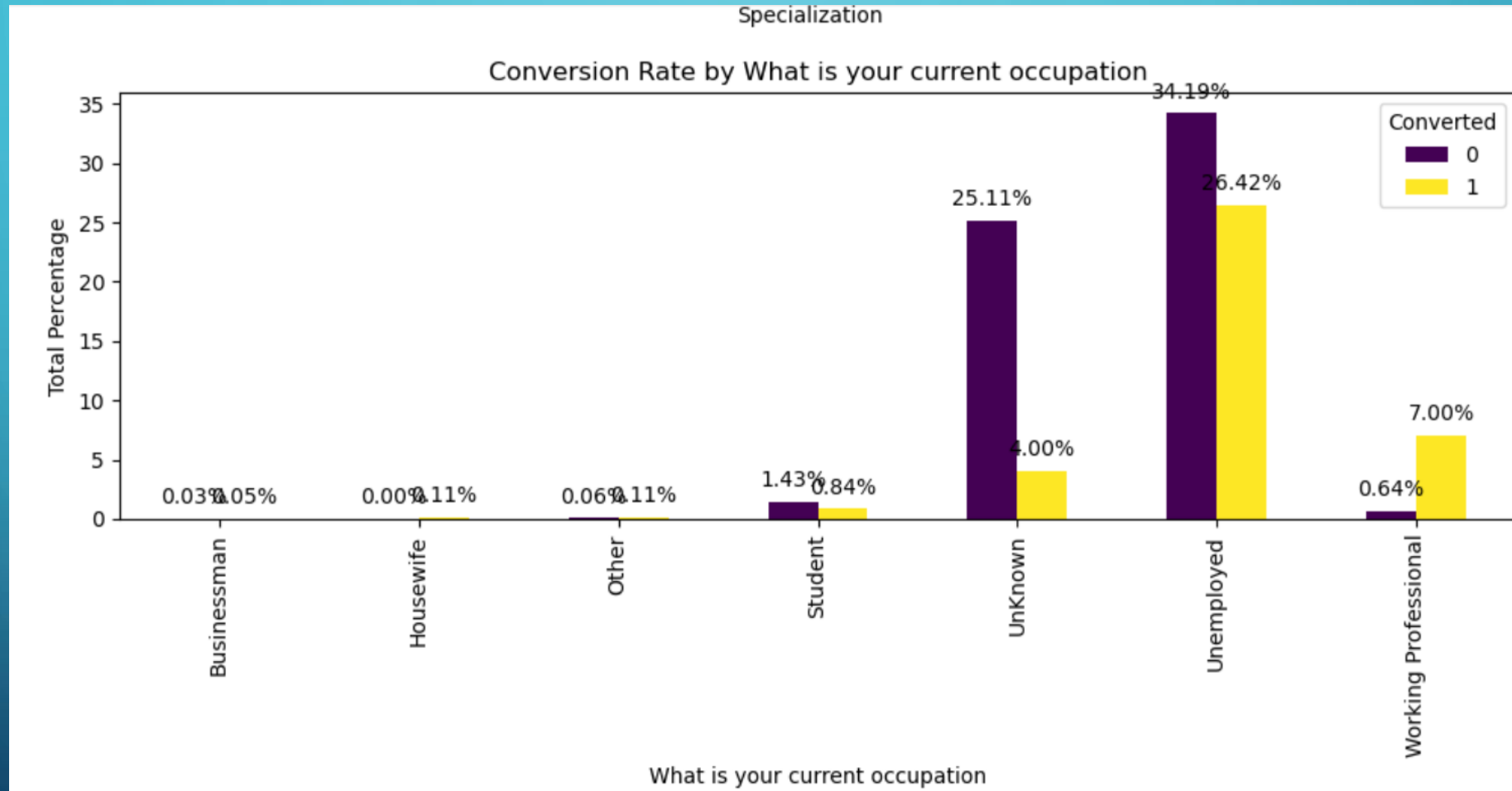
Page views per visits

Total Visit

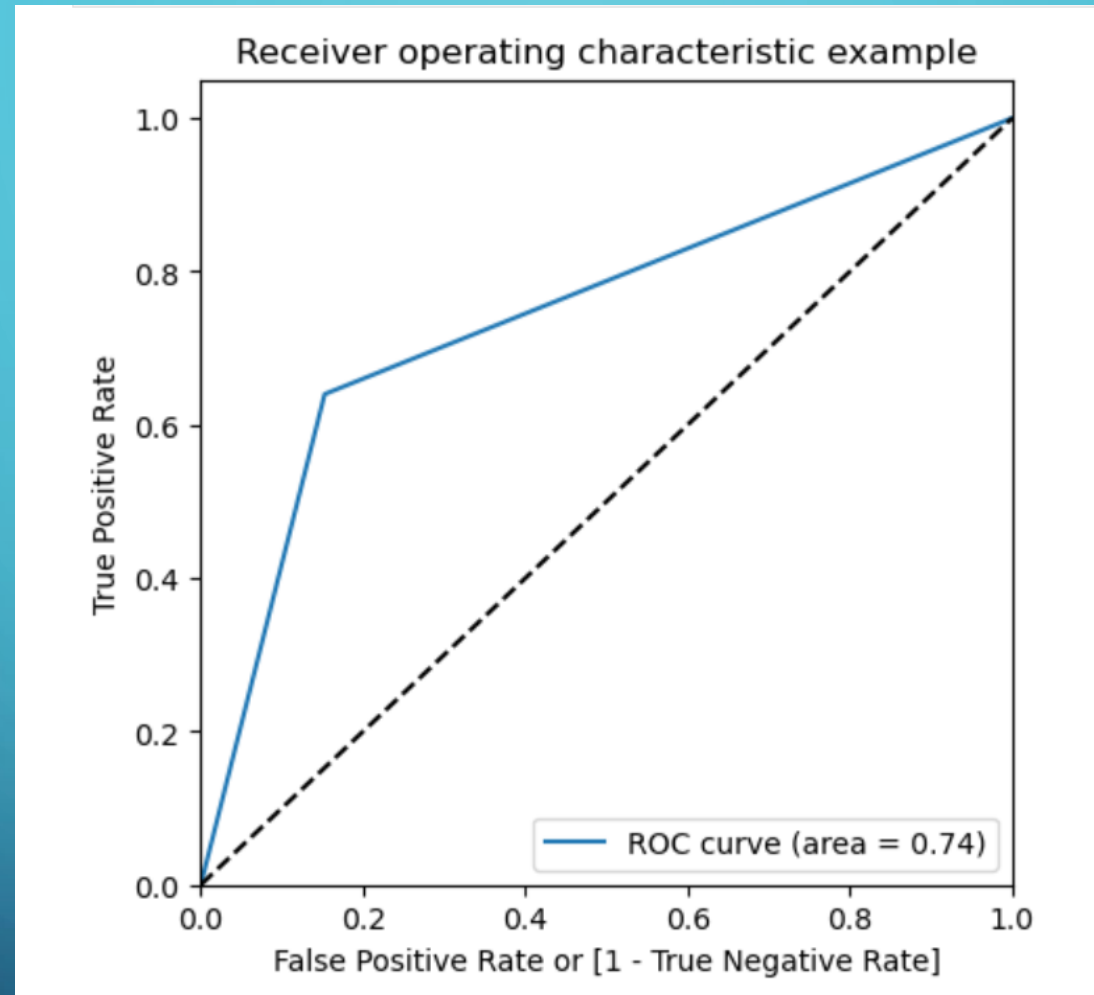


Total Visit

What is your current occupation_Unemployed has a strong positive impact on lead conversion.

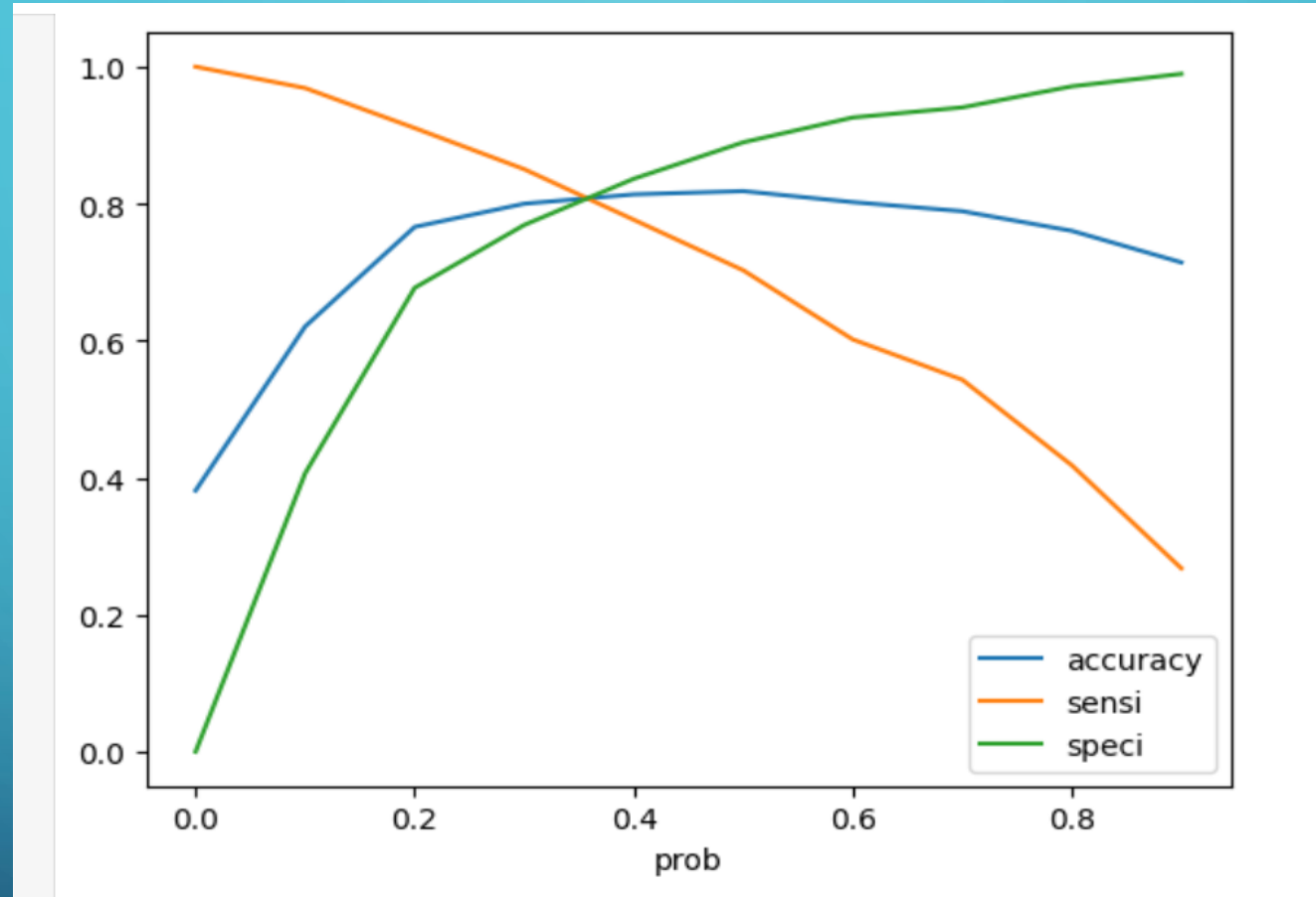


ROC CURVE



The ROC curve's area is 0.74, indicating a strong model performance.

FINDING OPTIMAL THRESHOLD



From the curve above, 0.35 is the optimum point to take it as a cutoff probability.

CONCLUSION

- ❖ While we have checked both sensitivity-specificity as well as Precision & Recall metrics, we have considered the optimal cut off based on sensitivity & specificity for calculating the final prediction.
- ❖ Accuracy, Sensitivity & Specificity values of test set are around 76.8, 63.9%, 84.7% which are approximately closer to values using trained Data set.
- ❖ Overall, this model proves to be accurate.

The image features a blue gradient background with white circuit-like lines in the corners. These lines consist of straight segments and small circles, resembling a stylized electronic circuit or data flow diagram. They are positioned in the top-left, top-right, bottom-left, and bottom-right corners, framing the central text.

THANK YOU