

SUMMARY

As a data scientist, our project for X-Education aimed to optimize the lead conversion process and increase course sales. We developed a logistic regression model with rigorous analysis and consideration of key variables, resulting in a robust solution for identifying potential customers with a higher likelihood of conversion.

Our model demonstrated strong performance with an accuracy rate of 77.05%, sensitivity of 82.89%, and specificity of 73.49%. These metrics indicate that our model effectively captures both positive and negative instances, enabling X-Education to focus their sales efforts on leads with the highest conversion potential.

Key variables such as lead origin, lead source, and current occupation played a significant role in predicting conversion probability. Our analysis identified these variables as important factors influencing lead conversion. By prioritizing leads based on these variables, X-Education can allocate their resources more efficiently and increase their chances of successful sales.

Through the implementation of our model and recommendations, X-Education can expect improved conversion rates and enhanced sales performance. Our data-driven approach and robust model provide a reliable foundation for making informed decisions and optimizing the lead conversion process.

Based on the technical data, strong model performance, and the influence of key variables, we can confidently justify the effectiveness and value of our model in helping X-Education achieve their sales targets.