**CA-05 Logistic Regression**

Chart, line chart

Description automatically generated

For Part 3 in CA-05 guidelines, the task is to evaluate the performance of my model and find meaningful conclusion. I created a ROC curve to showcase the AUC. The AUC is 0.67, which indicates that it is a strong score. This means that the model has a good predictive ability. Numbers above 0.5 gives us good insights in terms of the strength of the model. If we had a score below 0.5, we could conclude that we have a poor model which can make a lot of random predictions. Another performance metrics that we have is the F1 score. The F1 score is the harmonic mean of precision and recall. High number indicates a strong performing model. Our F1 score of 0.76 shows that our model performance is strong.