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Logistic Regression Questions

1. Chart

   Description automatically generated with medium confidenceEvaluate the performance of your model (including ROC Curve), explain the performance, and draw a meaningful conclusion.

The accuracy of the logistic regression model is .69, which is satisfactory, but it is best practice to look at other performance measures to ensure we are not misled. When we look at the confusion matrix, we are aiming for a maximization of true negatives and true positives. In the confusion matrix for this model, we see that between the true positives outnumber the false positives and the true negatives outnumber the false negatives. The precision, recall and f1 score also reflect this. Precision is what percent of the classified target what classified correctly, and both “at risk” and “no identified risk” were called correctly. Recall is of all outcomes, what percent were called correctly, and f1 score is the harmony of precision and recall. The AUC of the ROC curve is 0.67, which is satisfactory for model performance.