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CA05 – Logistic Regression

Our final graph shows our ROC curve and shows the balance between sensitivity and specificity. Our precision is our ability to predict our positive outcomes correctly and our recall is our ability to predict our negative outcomes correctly. As we can see, our recall is 1 which means we predict our negative outcomes perfectly. However, our precision is 0.584 which means our positive predictions is only slightly better than random. This is shown in our ROC curve with our AUC only being 0.68 which is not great as well. When thinking about our data and what we are working with, we are trying to predict cardiovascular disease in patients. We have a 100% chance of telling someone if they do not have cardiovascular disease which is great. However, we only have a 58.4% of correctly predicting when someone has cardiovascular disease. Thus, in my opinion, this is not a very good model and shouldn’t be used to help predict cardiovascular disease.