John Lehne
BSAN 6070
CA05

**Part 3: Model Performance:**

Per the requirements, an ROC curve was created showcasing the AUC.  The AUC is at .67, which is a strong AUC score and suggests that the model has a good predictive nature.  If the AUC was .5 or lower, then the model would be poor performing and making random predictions. Another performance metric looked at is F1 score.  This metric showcases the balance of Precision and Recall, in which a high balance would suggest a strong performing model.  The F1 score achieved of .76 suggest that the model is well balanced and a strong performer.