

# Binary classification with Logistic regression

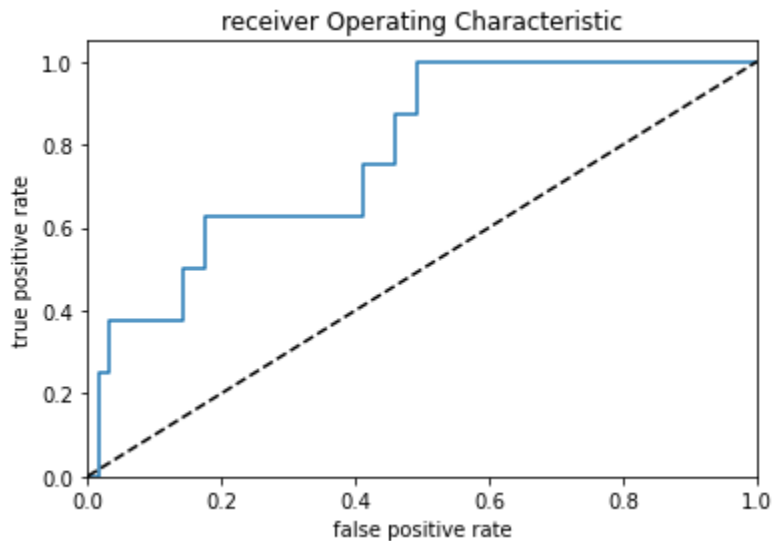
## The hypothesis and null hypothesis of the classification problem

H0: We can predict the status of the customer

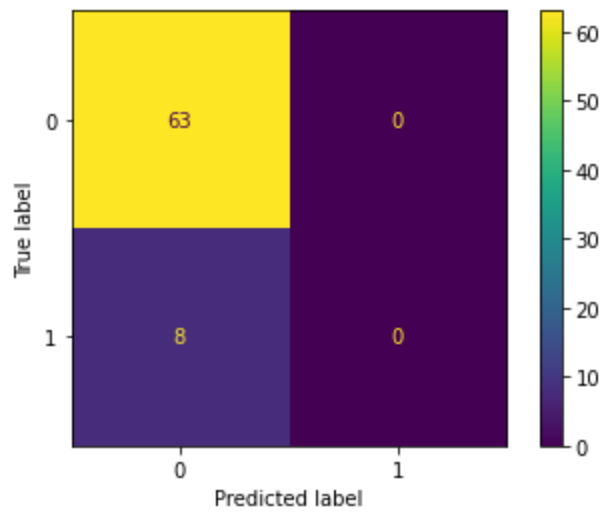
Ha: We can't predict the status of the customer

## The accuracy of the model you achieved

After concluding that 0.7817460317460317 is the parameter of classification, we tested the accuracy of this parameter as a threshold. This ROC chart illustrates the findings:



And then the confusion matrix to ensure this parameter won't result in too many false positives or false negatives:



## Business Strategy

And thus we can say that we can classify customers regarding loan requests.