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#title: Week 10 Logistic regression - Binary Classifier
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getwd()

setwd("E://Repos/StatisticsR/DSC520-Statistics/week10")

binary\_df <- read.csv("binary-classifier-data.csv")</pre>

head(binary\_df)

binary\_model <- glm(label~x+y,data=binary\_df,family=binomial())</pre>

summary(binary\_model)

psuedo\_R2 <- 1-(binary\_model\$deviance/binary\_model\$null.deviance)
psuedo\_R2</pre>

What is the accuracy of the logistic regression classifier?

Very poor, with very low Pseudo R-squared of 0.01.

Residual deviance of 2052.1 is only slightly smaller than null deviance of 2075.8, hence a low Pseudo R-squared

p<0.01 for the intercept and y,x however is too high

Multicollinearity not addressed, but don't think it's an issue with low Pseudo R-squared and only two predictors.

AIC of 2058.1 can be compared with other models.