Assignment 9.1

1. Use the below given data set

Data Sethttps://archive.ics.uci.edu/ml/datasets/Weight+Lifting+Exercises+monitored+with+Inertial+Measurement+Units

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2. Perform the below given activities:

a. Create classification model using logistic regression model

b. verify model goodness of fit

c. Report the accuracy measures

d. Report the variable importance

e. Report the unimportant variables

f. Interpret the results

g. Visualize the results

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install.packages("mlbench")

Example\_WearableComputing\_weight\_lifting\_exercises\_biceps\_curl\_variations <- read.csv2("C:/Users/IBM\_ADMIN/Downloads/Example\_WearableComputing\_weight\_lifting\_exercises\_biceps\_curl\_variations.csv", sep="", comment.char="#")

mylogit <- glm(EXAMPLE ~ DATA., data = Example\_WearableComputing\_weight\_lifting\_exercises\_biceps\_curl\_variations, family = "binomial")

tidy(mylogit)

summary(mylogit)

exp(coef(mylogit))

confint(mylogit)

default %>%

mutate(prob = ifelse(default == "Yes", 1, 0)) %>%

ggplot(aes(balance, prob)) +

geom\_point(alpha = .15) +

geom\_smooth(method = "glm", method.args = list(family = "binomial")) +

ggtitle("Logistic regression model fit") +

xlab("Example") +

ylab("DATA.")