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library('sjmisc')

dataset<-read.csv("C:\\Users\\User\\Desktop\\loans_data_Apply_Linear_
Regression.csv")
dim(dataset)
str(dataset)

dataset <- subset(dataset, select = -c(ID,FICO.Range) )
dataset$Amount.Requested<- as.integer(as.character(dataset$Amount.Requested))
dataset$Amount.Funded.By.Investors<-
as.integer(as.character(dataset$Amount.Funded.By.Investors))
dataset$Revolving.CREDIT.Balance<-
as.integer(as.character(dataset$Revolving.CREDIT.Balance))
dataset<-data.frame(lapply(dataset, function(x) if(str_contains(x,"%"))
as.numeric(sub("%", "", x)) else x) )

row.has.na <- apply(dataset, 1, function(x){any(is.na(x))})
sum(row.has.na)
dataset <- dataset[!row.has.na,]

library(caTools)
set.seed(123)
split = sample.split(dataset$Interest.Rate, SplitRatio = 0.8)
training_set = subset(dataset, split == TRUE)
test_set = subset(dataset, split == FALSE)

regressor = lm(formula = Interest.Rate ~ .,
               data = training_set)

y_pred = predict(regressor, newdata = test_set)

library(alr3)
summary(regressor)$adj.r.squared
summary(regressor)$r.squared

```