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IT-460-18500-M01 Machine Learning 2024 C-5 (Sep - Oct)

9/8/24

Module One Lab Report

To begin the project, I loaded the library and data set using the commands “library(RWeka)” and “library(datasets)”. The built-in I loaded in R is “mtcars”, which contains different specifications and performance measurements for various car models.

After loading the library and dataset, I created a linear regression model to predict mpg using the relationships of the data observed in “mtcars”. The different variables that were determined as the best predictors are; miles per gallon(mpg), weight(wt), quarter mile speed time in seconds(qsec), and if the car is automatic or manual(am). After running the linear regression, the output of the coefficients for each predictor variable and the intercept are shown.

After executing the linear regression model, I also executed a stepwise regression to get a more accurate model. After executing the command, I was able to confirm that the linear regression model produced the most relevant or significant predictors.

