Exploring weight dependence with body dimensions through multiple linear regression analysis

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Abstract: Multiple linear regression technique was used to see the relationship between weight as response variable and body dimensions along with age, height and gender as regressor variables. Subset of regression model with significant regressors is selected using forward, backward and stepwise selection algorithm in R. Observing the values of adjusted $R^2$, Mallow’s $C_p$ and mean square residue we have selected best possible set of regressors that have significant effect on weight.

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