Practicum Assignment #5

* By now you should have identified the main outcome variable for your research question
  + Y = “Total” (the sum of best of three lifts for back squat, bench, and deadlift)
  + X = bodyweight
* Estimate a simple linear regression model that includes only your most important predictor variable
  + Y = 91.1 + 4.81X
* Present and interpret your results and discuss any potential limitations of your estimates
  + Coefficient interpretation: for each additional kilogram of bodyweight, we can expect to see an increase of 4.81kg in an athlete’s total lift capability.
  + The p-value of the slope is very small, close to zero. This indicates that the coefficient of the bodyweight variable is statistically significant.
  + The 95% confidence interval of the estimated slope coefficient is (4.68, 4.94)
  + R-squared of the current linear regression model indicates that approximately 42.66% of total variation in “TotalKg” lift capability is explained by its relationship with an athlete’s bodyweight.

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