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Homework 6

1. The RMSE equals 1772.73.
   1. The p-value is <2.2e-16. This tells us that that there is a 2.2e-16 probability that you by chance got a relationship as strong as the one you are observing between all the variables and the outcome variable.
   2. The predictors that are determined to have a statistically significant relationship with Price would be Age\_sqrt, KM, weight, and HP having the lowest p value. While the lowest statistical significant relationship with price would be MetColor and Age having the highest p value.
   3. The estimate for age predictor is 38.54 which just tells us the slope and it can make sense if we have the y-intercept so we can graph a regression line to help predict price.
   4. The RMSE is 1344.19 of the multiple linear regression which is much better than the RMSE 1772.73.
   5. Age
   6. KM, CC, HP, Weight, FuelType, Age\_Sqrt
   7. 1312.466