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Auto <- read.csv("Auto.csv") head(Auto) Autohorsepower <- as.numeric(horsepower) Autohorsepower <- as.numeric(Autohorsepower) Auto <- na.omit(Auto) str(Auto) fit <- lm(mpg ~ horsepower, data = Auto) summary(fit) predict(fit, newdata = data.frame(horsepower = 98)) predict(fit, +newdata = data.frame(horsepower = 98), +interval = "confidence", +level = 0.95) predict(fit, +newdata = data.frame(horsepower = 98), +interval = "prediction", +level = 0.95) plot(Autohorsepower, Auto$mpg, + xlab = "Horsepower", + ylab = "mpg", + main = "MPG vs Horsepower") abline(fit, col = 'red', lwd = 2) par(mfrow = c(2,2)) plot(fit)
```