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2.4: Confidence Interval of the Mean Response

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Topic 2.4: Confidence Interval of the Mean Response

Read Section 2.4.2 of your textbook. As you read, take notes on the following.

- 1. Write down the formula for the confidence interval of the mean response. For this confidence interval:
 - How does increasing the level of confidence affect the width of this confidence interval?
 - How does model fit affect the width of this confidence interval?
 - How does the width of this confidence interval change as the value of the predictor variable moves farther away from the sample mean of the predictor?
- 2. Describe, in your own words, what a confidence interval of the mean response tells us.

Refer to this file for a more in-depth explanation of how the standard error for the mean response is derived.

mod2_standarderror_mean.pdf

In-Depth Explanation for Properties of Least-Squares Estimators

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