

Applying Linear Regression

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In this lab you will apply regression to some realistic data. You will work with the automotive price dataset. Your goal is to construct a linear regression model to predict the price of automobiles from their characteristics.

By the completion of this lab, you will:

1. Use categorical data with scikit-learn.
2. Apply transformations to features and labels to improve model performance.
3. Compare regression models to improve model performance.

Lab Steps

1. Make sure that you have completed the setup requirements as described in the Lab Overview section.
2. Now, run jupyter notebook and open the “ApplyingLinearRegression.ipynb” notebook under Module 4 folder.
3. Examine the notebook and answer the questions along the way.

Question 1

0/1 point (graded)

Which category of the body.style feature is used to compute the intercept?

☐ sedan

☒ wagon



☐ hatchback

☐ hardtop_convert



Submit

You have used 2 of 2 attempts

i Answers are displayed within the problem

Question 2

1.0/1.0 point (graded)

What is the RMSE for the prediction?

☒ 0.1403



☐ 0.0197

☐ 0.8877

☐ 0.8776

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