

Quiz 3.2 - Linear Regression

- Due Feb 12 at 4:30pm
- Points 8
- Questions 4
- Time Limit 10 Minutes
- Allowed Attempts 2

Instructions

You have 10 minutes and two attempts for this quiz.

Attempt History

	Attempt	Time	Score
KEPT	Attempt 1	3 minutes	8 out of 8
LATEST	Attempt 2	less than 1 minute	0 out of 8
	Attempt 1	3 minutes	8 out of 8

Score for this attempt: 0 out of 8

Submitted Mar 2 at 3:58pm

This attempt took less than 1 minute.



UnansweredQuestion 1

0 / 2 pts

A variable measures the education level of a customer as follows: under high school, high school, college, and post-graduate. How many dummy variables do we need to add this variable to a linear regression?

☐ 4

Correct Answer

☐ 3

☐ 2

☐ 1



UnansweredQuestion 2

0 / 2 pts

In our Toyota dataset, the regression output reports the coefficients of 'Fuel_Diesel' and 'Fuel_Petro'. Why is there no coefficient for the fuel type 'CNG'?

- ☐ There are too few CNG cases.
- ☐ It is not correct to include categorical variables in linear regression.
- ☐ The model is specified wrong.

Correct Answer

- ☐ 'CNG' is the base case.



UnansweredQuestion 3

0 / 2 pts

Which of the following answers the question "how does mileage affect used car prices"?

Correct Answer

- ☐ The coefficient of the variable indicates the price change when the mileage increases by 1 unit.
- ☐ The t-statistics of the variable indicates the price change when the mileage increases by 1 unit.
- ☐ The linear regression outcomes cannot answer the question.
- ☐ The p-value of the variable indicates the price change when the mileage increases by 1 unit.



UnansweredQuestion 4

0 / 2 pts

Assume the coefficient of 'Automatic' is 500. How can we interpret it?

- ☐ Regression coefficients do not hold any meanings.
- ☐ Automatic cars can sell for \$500.
- ☐ Given a car is automatic, the price will increase \$500 when everything else increases 1 unit.

Correct Answer



Comparing to non-automatic cars, automatic cars can sell for averagely \$500 more, given everything else holds the same.

Quiz Score: 0 out of 8