



Regression

TOTAL POINTS 9

1. Which of the following is the meaning of "**Out of Sample Accuracy**" in the context of evaluation of models?

3 points

- ☒ "Out of Sample Accuracy" is the percentage of correct predictions that the model makes on data that the model has NOT been trained on.
- ☐ "Out of Sample Accuracy" is the accuracy of an overly trained model (which may captured noise and produced a non-generalized model)

2. When should we use **Multiple Linear Regression**?

3 points

- ☒ When we would like to identify the strength of the effect that the independent variables have on a dependent variable.
- ☒ When we would like to predict impacts of changes in independent variables on a dependent variable.
- ☐ When there are multiple dependent variables



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Graded Quiz • 6 min

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that the model makes on data that the model has NOT been trained on.

- ☐ "Out of Sample Accuracy" is the accuracy of an overly trained model (which may captured noise and produced a non-generalized model)

2. When should we use **Multiple Linear Regression**?

3 points



When we would like to identify the strength of the effect that the independent variables have on a dependent variable.



When we would like to predict impacts of changes in independent variables on a dependent variable.



When there are multiple dependent variables

3. Which sentence is **NOT TRUE** about **Non-linear Regression**?

3 points



Nonlinear regression is a method to model non linear relationship between the dependent variable and a set of independent variables.



For a model to be considered non-linear, y must be a non-linear function of the parameters.



Non-linear regression must have more than one dependent variable.