

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 there are multiple dependent variables
- ☒ When we would like to predict impacts of changes in independent variables on a dependent variable.

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.

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