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3. Introduction
Introduction; Lecture Overview

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Introduction Exercise

1/1 point (graded)
Which of the following is true about linear regression? Choose all those apply.

- [x] The observed value, y, is a real number. i.e. $y \in \mathbb{R}$
- [x] The predictor f is a linear function of the feature vectors. i.e. $f(x) = \sum_{i=1}^{d} \theta_i x_i + \theta_0$
- [ ] The observed value y is a discrete integer.
- [ ] The observed value y is a category, as in classification.

✔

Solution:

By definition, in regression, the observed value y is a real number(continuous), unlike y is discrete in classification. The predictor f, which tries to emulate/predict y is defined as $f(x) = \sum_{i=1}^{d} \theta_i x_i + \theta_0$.

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ℹ Answers are displayed within the problem

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