

<u>Unit 2 Nonlinear Classification</u>, <u>Linear regression, Collaborative</u>

<u>Course</u> > <u>Filtering (2 weeks)</u>

3. Introduction

> Lecture 5. Linear Regression >

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3. Introduction Introduction; Lecture Overview





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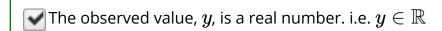
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Introduction Exercise

1/1 point (graded)

Which of the following is true about linear regression? Choose all those apply.



The predictor f is a linear function of the feature vectors. i.e. $f\left(x
ight) = \sum_{i=1}^d heta_i x_i + heta_0$

 $lue{}$ The observed value y is a discrete integer.

The observed value $oldsymbol{y}$ 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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You have used 1 of 3 attempts

1 Answers are displayed within the problem

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