Regression quiz 2nd attempt score 88% | Coursera

Regression

8/9 points earned (88%)

Quiz passed!

Back to Week 2

1. Which figure represents an overfitted model?

1 / 1 points

2. ***True or false:*** The model that best minimizes training

1 / 1

points

error is the one that will perform best for the task of prediction on new data.

3.

1 / 1 points

The following table illustrates the results of evaluating 4 models with different parameter choices on some data set. Which of the following models fits this data the best?

Model index	Parameters (intercept, slope)	Residual sum of squares (RSS)

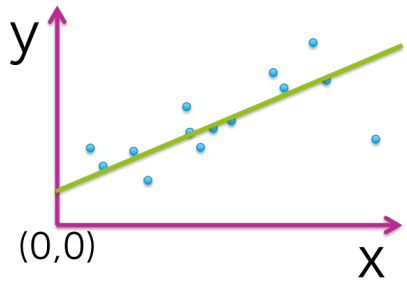
1	(0,1.4)	20.51
2	(3.1,1.4)	15.23
3	(2.7, 1.9)	13.67
4	(0, 2.3)	18.99

---

1 / 1 points

4. Assume we fit the following quadratic function: f(x) = w0+w1*x+w2*(x^2) to the dataset shown (blue circles). The fitted function is shown by the green curve in the picture below. Out of the 3 parameters of the fitted function (w0, w1, w2), which ones are

estimated to be 0? *(Note: you must select all parameters estimated as 0 to get the question correct.)*

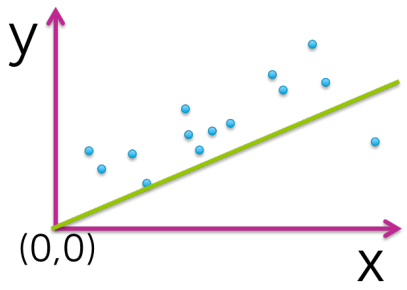


5.

0 / 1 points

Assume we fit the following quadratic function: f(x) = w0+w1*x+w2*(x^2) to the dataset shown (blue circles). The fitted function is

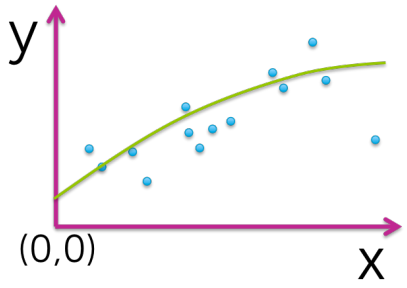
shown by the green curve in the picture below. Out of the 3 parameters of the fitted function (w0, w1, w2), which ones are estimated to be 0? *(Note: you must select all parameters estimated as 0 to get the question correct.)*



6. Assume we fit the

1 / 1 points

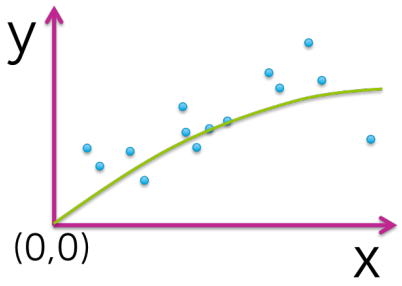
following quadratic function: f(x) = w0+w1*x+w2*(x^2) to the dataset shown (blue circles). The fitted function is shown by the green curve in the picture below. Out of the 3 parameters of the fitted function (w0, w1, w2), which ones are estimated to be 0? *(Note: you must select all parameters estimated as 0 to get the question correct.)*



1 / 1 points

7. Assume we fit the following quadratic function: f(x) = w0+w1*x+w2*(x^2) to the dataset shown (blue circles). The fitted function is shown by the green curve in the picture below. Out of the 3 parameters of the fitted function (w0, w1, w2), which ones are

estimated to be 0? *(Note: you must select all parameters estimated as 0 to get the question correct.)*



8.

1 / 1 points

Which of the following plots would you ***not*** expect to see as a plot of training and test error curves?

1 / 1 points

9. ***True or false:*** One always prefers to use a model with more features since it better captures the true underlying process.