Chapter 9 Quiz

9.Q.1

1/1 point (graded)

Suppose that after our computer works for an hour to fit an SVM on a large data set, we notice that x_4, the feature vector for the fourth example, was recorded incorrectly (say, one of the decimal points is obviously in the wrong place).

However, your co-worker notices that the pair (x_4, y_4) did not turn out to be a support point in the original fit. He says there is no need to re-fit the SVM on the corrected data set, because changing the value of a non-support point can't possibly change the fit.

Is your co-worker correct?

- ○ Yes
- ◉ No ✔

Explanation

When we change x_4, the fourth example might become a support point; if so, the fit may change. However, we could check whether x_4, y_4 is still not a support point even after correcting the value. If so, then we really don't need to re-fit the model.

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ⓘ Answers are displayed within the problem