

Classification

Quiz, 7 questions

1
point

1.

The simple threshold classifier for sentiment analysis described in the video (*check all that apply*):

- ☐ **Must have pre-defined positive and negative attributes**
 - ☐ **Must either count attributes equally or pre-define weights on attributes**
 - ☐ **Defines a possibly non-linear decision boundary**
-

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2.

For a linear classifier classifying between “positive” and “negative” sentiment in a review x , $\text{Score}(x) = 0$ implies (*check all that apply*):

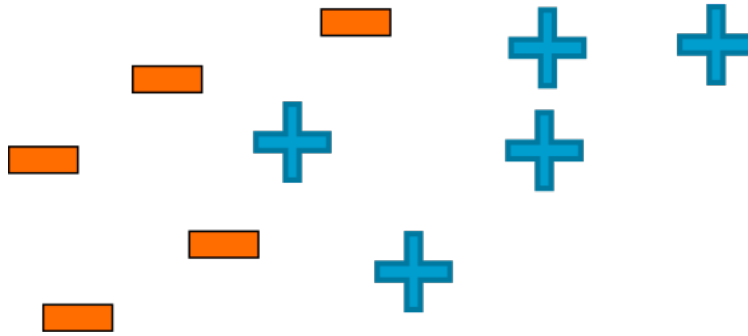
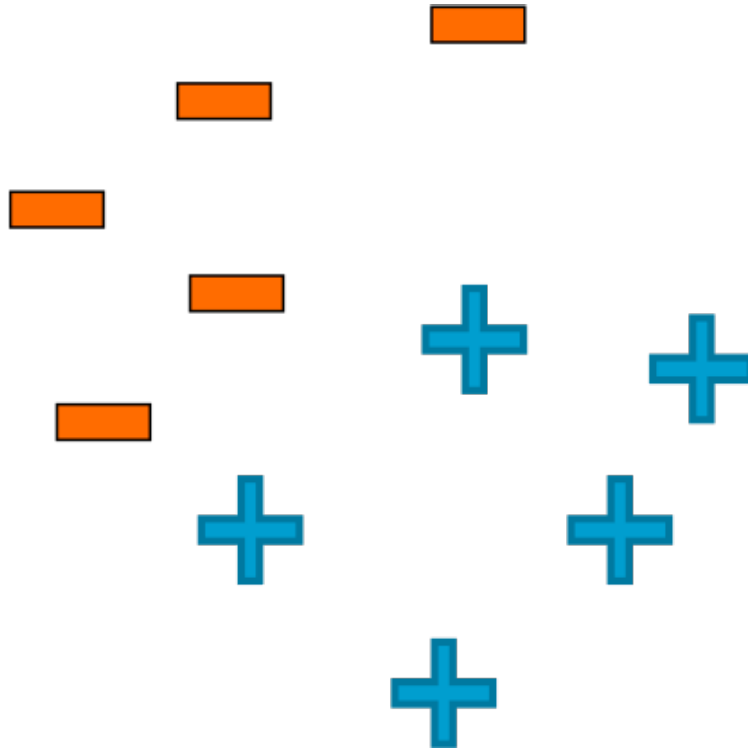
- ☐ **The review is very clearly “negative”**
 - ☐ **We are uncertain whether the review is “positive” or “negative”**
 - ☐ **We need to retrain our classifier because an error has occurred**
-

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Quiz, 7 questions 3.

For which of the following datasets would a **linear** classifier perform perfectly?

☐☐☐

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4.

True or false: High classification accuracy always indicates a good classifier.

☐

True

☐

False

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point

5.

True or false: For a classifier classifying between 5 classes, there always exists a classifier with accuracy greater than 0.18.

☐

True

☐

False

1

point

6.

True or false: A false negative is always worse than a false positive.

☐

True

☐

False

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Quiz, 7 questions 7.

Which of the following statements are true? (*Check all that apply*)

☐

Test error tends to decrease with more training data until a point, and then does not change (i.e., curve flattens out)

☐

Test error always goes to 0 with an unboundedly large training dataset

☐

Test error is never a function of the amount of training data

☐

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