Classification

Quiz, 7 questions

1 point

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

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

1 point

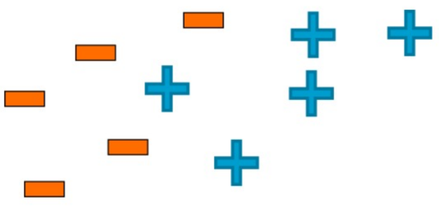
2. For a linear classifier classifying between "positive" and "negative" sentiment in a review x, Score(x) = 0 implies (*check all that apply*):

- [ ] **The review is very clearly "negative"**
- [x] **We are uncertain whether the review is "positive" or "negative"**
- [ ] **We need to retrain our classifier because an error has occurred**

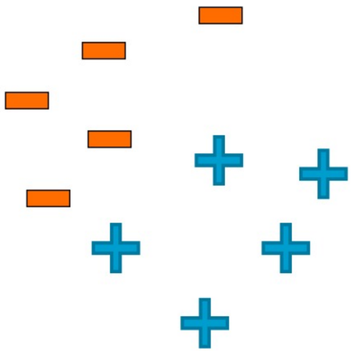
1 point

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

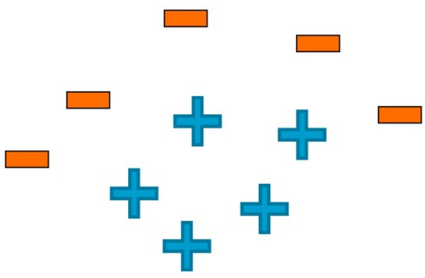
- [ ]



- [x]



- [ ]



1 point

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

- ( ) **True**
- (•) **False**

1 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**

1 point

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

- [x] **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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