Application: Photo OCR

Quiz, 5 questions

✔ **Congratulations! You passed!**   Next Item

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     point

1.

Suppose you are running a sliding window detector to find

text in images. Your input images are 1000x1000 pixels. You

will run your sliding windows detector at two scales, 10x10

and 20x20 (i.e., you will run your classifier on lots of 10x10

patches to decide if they contain text or not; and also on

lots of 20x20 patches), and you will "step" your detector by 2

pixels each time. About how many times will you end up

running your classifier on a single 1000x1000 test set image?

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     point

2.

Suppose that you just joined a product team that has been

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developing a machine learning application, using $m = 1,000$

training examples. You discover that you have the option of

hiring additional personnel to help collect and label data.

You estimate that you would have to pay each of the labellers

$10 per hour, and that each labeller can label 4 examples per

minute. About how much will it cost to hire labellers to

label 10,000 new training examples?

✔   1 / 1
point

3.

What are the benefits of performing a ceiling analysis? Check all that apply.

✔   1 / 1
point

4.

Suppose you are building an object classifier, that takes as input an image, and recognizes that image as either containing a car ($y = 1$) or not ($y = 0$). For example, here are a positive example and a negative example:

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Positive example ($y = 1$)

Negative example ($y = 0$)

After carefully analyzing the performance of your algorithm, you conclude that you need more positive ($y = 1$) training examples. Which of the following might be a good way to get additional positive examples?

✖   0 / 1
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5.

Suppose you have a PhotoOCR system, where you have the following pipeline:

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You have decided to perform a ceiling analysis on this system, and find the following:

Component	Accuracy
Overall System	70%
Text Detection	72%
Character Segmentation	82%
Character Recognition	100%

Which of the following statements are true?