

Positive example (v = 1)



Negative example (v = 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?

- Mirror your training images across the vertical axis (so that a left-facing car now becomes a right-facing one).
- Take a few images from your training set, and add random, gaussian noise to every pixel.
- Take a training example and set a random subset of its pixel to 0 to generate a new example.
- O Select two car images and average them to make a third example.
- 5. Suppose you have a PhotoOCR system, where you have the following pipeline:

1 point



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?

- ✓ There is a large gain in performance possible in improving the character recognition system.
- Performing the ceiling analysis shown here requires that we have ground-truth labels for the text detection, character segmentation and the character recognition systems.
- ☐ The least promising component to work on is the character recognition system, since it is already obtaining 100% accuracy.
- The most promising component to work on is the text detection system, since it has the lowest performance (72%) and thus the biggest potential gain.