



TO PASS 80% or higher

Keep Learning

grade 100%

Special applications: Face recognition & Neural style transfer

LATEST SUBMISSION GRADE

100%

1. Face verification requires comparing a new picture against one person's face, whereas face recognition requires comparing a new picture against K person's faces.

1/1 point

✓ Correct

2. Why do we learn a function d(img1, img2) for face verification? (Select all that apply.)

1 / 1 point

✓ Correct

3. In order to train the parameters of a face recognition system, it would be reasonable to use a training set comprising 100,000 pictures of 100,000 different persons.

1 / 1 point

Correct

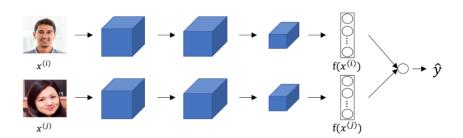
4. Which of the following is a correct definition of the triplet loss? Consider that $\alpha>0$. (We encourage you to figure out the answer from first principles, rather than just refer to the lecture.)

1 / 1 point

✓ Correct

5. Consider the following Siamese network architecture:

1/1 point



The upper and lower neural networks have different input images, but have exactly the same parameters.

✓ Correct

5. You train a ConvNet on a dataset with 100 different classes. You wonder if you can find a hidden unit which responds strongly to pictures of cats. (I.e., a neuron so that, of all the input/training images that strongly activate that neuron, the majority are cat pictures.) You are more likely to find this unit in layer 4 of the network than in layer 1.

1 / 1 point

