coursera



Question 1

What back-propagation is usually used for in neural networks?

Correct answer:

• <u>To calculate gradient of the loss function with respect to the parameters of the network</u>

Incorrect answers:

- <u>To propagate signal through network from input to output only.</u> This is called "forward pass"
- Make several random perturbations of parameters and go back to the best one.

 This one doesn't involve gradients and have nothing to do with back-propagation
- <u>Select gradient update direction by flipping a coin.</u> In back-propagation gradients are calculated exactly, not random

Question 2

Suppose we've trained a RandomForest model with 100 trees. Consider two cases:

- 1. We drop the first tree in the model
- 2. We drop the last tree in the model

We then compare models performance *on the train set*. Select the right answer.

Correct answers:

• In the case1 performance will be roughly the same as in the case2. In