

Setting up your optimization problem

Gradient Checking

Gradient check for a neural network

Take wτ[1], μτ[1], μτ[μ], μτ[μ] and reshape into a big vector θ.

Take awr[1], dbr[1], ..., dwr[L], dbr[L] and reshape into a big vector do.

Gradient checking (Grad check)

for each i:

$$\frac{1}{2} = \frac{1}{20} = \frac{1}{20$$



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Gradient Checking implementation notes

Gradient checking implementation notes

- Don't use in training – only to debug

- If algorithm fails grad check, look at components to try to identify bug.

- Remember regularization.

- Doesn't work with dropout.

- Run at random initialization; perhaps again after some training.

