

Quiz, 5 questions

* Try again once you are ready.

Back to Week 5

Required to pass: 80% or higher

You can retake this quiz up to 3 times every 8 hours.

Retake



1/1 point

You are training a three layer neural network and would like to use backpropagation to compute the gradient of the cost function. In the backpropagation algorithm, one of the steps is to update

$$\Delta_{ij}^{(2)} := \Delta_{ij}^{(2)} + \delta_i^{(3)} * (a^{(2)})_j$$

for every i, j. Which of the following is a correct vectorization of this step?



1/1

point

Suppose **Theta1** is a 5x3 matrix, and **Theta2** is a 4x6 matrix. You set **thetaVec** = [**Theta1**(:); **Theta2**(:)]. Which of the following correctly recovers Theta2?



0/1

point

Let $J(\theta)=3\theta^4+4$. Let $\theta=1$, and $\epsilon=0.01$. Use the formula $\frac{J(\theta+\epsilon)-J(\theta-\epsilon)}{2\epsilon}$ to numerically compute an approximation to the derivative at $\theta=1$. What value do you get? (When $\theta=1$, the true/exact derivative is $\frac{dJ(\theta)}{d\theta}=12$.)



0/1

point

Which of the following statements are true? Check all that apply.



0/1 point

Which of the following statements are true? Check all that apply.

Neural Networks: Learning Quiz, 5 questions



