Quiz 3 Module 4

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Thanks for filling out Quiz 3 Module 4

Here's what was received.

Quiz 3 Module 4

Quiz 3 for Module 4: Perceptron and Gradient Descent of the Foundations in Modern Machine Learning course.

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You have 100 samples of data and your batch size is 16. How many iterations will it take to go through 1 epoch? *

- ○ 5
- ◉ 6
- ○ 7
- ○ 8

Stochastic Gradient Descent always converges for any dataset. True or False? *

- ○ True
- ◉ False

Given function f(x) = |x^2 + 3| − 1 defined on R: *

- ○ The problem is nonconvex, so it not feasible to find a solution.
- ○ Newtons Method on minimizing gradients will always converge to the global optimum in one it eration from any starting location
- ○ Stochastic Gradient Descent will always converge to the global optimum in one iteration
- ◉ All of the above
- ○ None

If number of samples are 1000, then which of the following are suitable sizes for running mini batch gradient descent? *

- ☑ 32
- ☑ 64
- ☐ 1
- ☐ 1000

One epoch in Stochastic Gradient Descent is the same as one iteration. *

- ◉ True
- ○ False