

Assignment - 2 (Quiz) - Results



Attempt 1 of 2

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Attempt Score **1.6 / 2 - 80 %**

Overall Grade (Highest Attempt) **1.6 / 2 - 80 %**

Question 1

Which if the following is **NOT** true about regularization?

- ☐ It helps the model to generalize well for unseen test data.
- ✓ ☒ It is applied to both weights and biases.
- ☐ It shrinks the weight values closer to zero.
- ☐ It helps prevent model overfitting.

Question 2

When performing the bias trick, the bias feature takes the value:

- ☐ 0
- ☐ Any fixed positive value
- ☐ -1
- ✓ ☒ 1

Question 3

Suppose $L(\mathbf{w}) = \|\mathbf{w}\|^2$. What is $\nabla_{\mathbf{w}}(L)$?

- ☐ $\mathbf{w}/2$
- ✓ ☒ $2\mathbf{w}$
- ☐ $4\mathbf{w}$
- ☐ \mathbf{w}

Question 4

Suppose we have a sample that can correspond to 5 possible output classes. If the raw scores for that sample using some weights and biases for all the classes are equal, what is the multiclass SVM hinge loss for this sample?

- ☐ 6
- ☐ 5
- ☒ 4
- ☐ 0

Question 5

Suppose we have 10^3 samples corresponding to 10 output classes and that each sample is a 32×32 grayscale image. Suppose the samples are arranged columnwise in the data matrix and that the bias trick has been applied. What will be the shape of the data matrix?

- ☒ 1025 x 1000
- ☐ 1024 x 10
- ☐ 1024 x 1000
- ☐ 1000 x 1025

Done