

CSE-5368-001 Neural Networks

Spring 2023 Quiz 04

Time: 10 Minutes

Consider a neural network used for classification using the SVM loss function. the output of the network is:

$$\begin{bmatrix} \text{class 1 score} \\ \text{class 2 score} \\ \text{class 3 score} \end{bmatrix} = \begin{bmatrix} 5 \\ -2 \\ 5.5 \end{bmatrix}$$

a) If the **target class is class 3**, what is the loss? Assume $\Delta = 1$.

Numerical value of the loss is:

b) What would the loss be if the **target was class 2**? Assume $\Delta = 1$.

Numerical value of the loss is: