COMP4432 Quiz 2

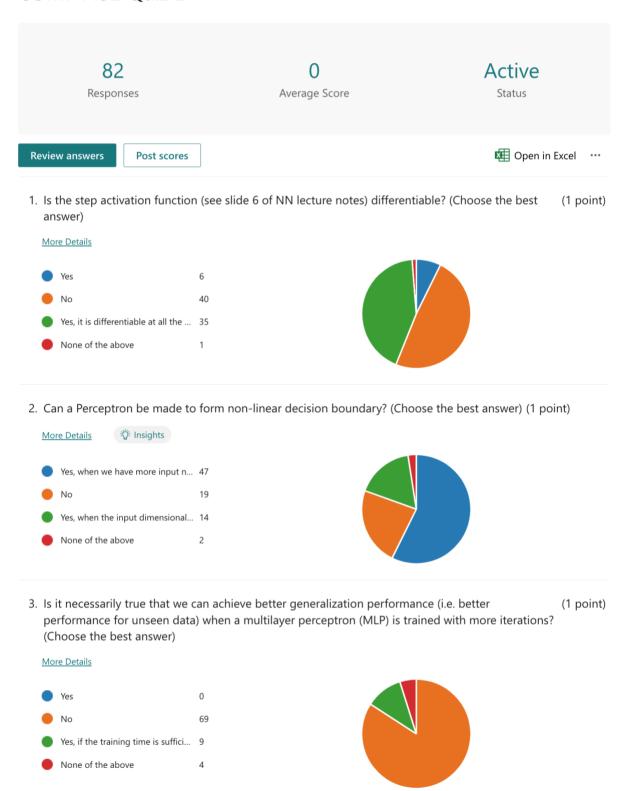
Submit your answer before 3:30am today!

Hi, Fu Lai Korris. When you submit this form, the owner will see your name and email address.	
1. Is the step activation function (see slide 6 of NN lecture notes) differentiable? (Choose the best answer) (1 Point) \square \oslash	
Yes	
○ No	
Yes, it is differentiable at all the points except 0.	Yes, it is differentiable at all the points except 0.
None of the above	
2. Can a Perceptron be made to form non-linear decision boundary? (Choose the best answer) (1 Point) □ ♦	
Yes, when we have more input nodes like a derived one x1*x1 (i.e. x1^2)	
○ No	Yes, when we have more input nodes like a derived one (e.g., $x_i^2, x_i^2 \cdot x_j^2$). Please also
Yes, when the input dimensionality is sufficiently high	check with the MLP demo link with x1 x2 for solving an XOR-like problem by no
None of the above	hidden layer)
3. Is it necessarily true that we can achieve better generalization performance (i.e. better performance for unseen data) when a multilayer perceptron (MLP) is trained with more	
iterations? (Choose the best answer) (1 Point) \square	
Yes	
No. Training with more iterations can lead to over-training as mentioned in lecture notes.	
Yes, if the training time is sufficiently long	
None of the above	

COMP4432 Quiz 2 1

Some statistics for your reference:

COMP4432 Quiz 2



COMP4432 Quiz 2 2