

# Day 1-Quiz

Total points 5/8 ?

✗ Name \*

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✗

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.../1

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✗

✗ Branch and Year \*

.../1

B.Tech AI & ML(A) - 4th Sem (2nd Year)

✗

✓ What is the primary limitation of a single-layer perceptron? \*

1/1

- ☐ It is computationally expensive.
- ☐ It cannot solve linearly separable problems.
- ☒ It cannot solve non-linearly separable problems.
- ☐ It requires complex activation functions.

✓



✓ What role does backpropagation play in a neural network? \* 1/1

- ☐ It initializes the weights of the network.
- ☒ It updates weights to minimize the loss function. ✓
- ☐ It determines the number of layers in the network.
- ☐ It selects the activation function for each layer.

✓ The ReLU activation function outputs which value for negative inputs? 1/1

- ☐ a) The input value itself
- ☐ b) A small positive value
- ☒ c) Zero ✓
- ☐ d) One

✓ What happens if the activation function in a neural network is removed? 1/1

- ☐ a) The network behaves like a deep learning model
- ☒ b) The network can only perform linear transformations ✓
- ☐ c) The network performs better
- ☐ d) The network requires fewer layers



✓ Which of the following activation functions is most prone to the vanishing gradient problem?

\*1/1

- ☒ a) Sigmoid
- ☐ b) Tanh
- ☐ c) ReLU
- ☐ d) Leaky ReLU



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