

1. What is deep learning

a. Deep learning is a subset of Machine Learning using neural networks with multiple layers to analyze complex data.

2. What is the difference between Machine Learning and Deep Learning?

a. Machine Learning uses algorithms, while Deep Learning uses neural networks with multiple layers.

3. What is a neural network?

a. A neural network is a Computational model inspired by the human brain's structure.

4. What is backpropagation?

a. Backpropagation is an optimization algorithm, adjusting neural network weights.

5. What is the role of activation functions?

a. Activation functions introduce non-linearity, enabling neural networks to learn complex patterns.