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The multi-layer perceptron is a powerful tool in the world of machine learning, capable of making smart decisions by mimicking the way our brain's neurons work. This amazing system can learn from its experiences, growing smarter over time as it processes information through layers, and eventually, it can predict answers with astonishing accuracy!

Technical Terms Explained:

Multi-Layer Perceptron (MLP): A type of artificial neural network that has multiple layers of nodes, each layer learning to recognize increasingly complex features of the input data.

Input Layer: The first layer in an MLP where the raw data is initially received.

Output Layer: The last layer in an MLP that produces the final result or prediction of the network.

Hidden Layers: Layers between the input and output that perform complex data transformations.

Quiz Question

How does a multi-layer perceptron learn to make accurate predictions?

- By choosing random weights
- By increasing the number of layers indefinitely
- By adjusting weights during training

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