**MODULE 1 TASK**

**AI (Artificial Intelligence):** Think of AI as the broader concept. It's like the overarching umbrella. AI refers to the simulation of human intelligence in machines that are programmed to think and learn like humans. It encompasses a variety of technologies and techniques that enable machines to perform tasks that typically require human intelligence.

**ML (Machine Learning):** Now, zoom into AI, and you'll find ML. Machine Learning is a subset of AI that focuses on the development of algorithms and statistical models that enable computers to improve their performance on a specific task over time. Instead of being explicitly programmed to perform a task, a machine learning system uses data to learn and make decisions.

**DL (Deep Learning):** And within the realm of machine learning, you've got deep learning. Deep Learning is a subset of machine learning where artificial neural networks, inspired by the structure and function of the brain, are used to enable machines to learn and make decisions. It involves layers of interconnected nodes (like neurons) that can automatically learn to extract features from data.

In a nutshell, AI is the big picture, ML is a technique within that picture, and DL is a specialized technique within ML that involves neural networks. Each layer gets more specific and sophisticated!

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