Machine Learning vs Deep Learning

Machine Learning (ML) enables systems to learn from data and improve over time without being explicitly programmed. Deep Learning (DL) is a subset of ML that uses neural networks with multiple layers.

Diagram:

Machine Learning

|-- Supervised Learning

|-- Unsupervised Learning

|-- Reinforcement Learning

   |

   `-- Deep Learning (Neural Networks)

Comparison:

- ML: Requires feature engineering.

- DL: Learns features automatically via layers.

- DL needs large datasets and high computation.