Deep Learning

What is Deep Learning ??

- **ARTIFICIAL INTELLIGENCE** — Any technique that enables computers to mimic human behavior
- **MACHINE LEARNING** — Ability to learn without explicitly being programmed
- **DEEP LEARNING** — Extract patterns from data using neural networks

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3 1 3 4 7 2
1 7 4 2 3 5
```

AI

ML → Numerical data
(Historical)
(House Price Prediction)

DL → Image
(Face Detection)
Banking (Ensemble)
ML algorithms
Numerical (Simpler)
data

GPUs → incurs Lot of costs

DL algorithms
(Healthcare - Images of CT Scan)

Image

Performance ↑

Data →