# AI / ML / DL Notes

## AI Concepts

AI: machines mimic human intelligence (learn, solve problems).  
ML: machines learn from data (no step-by-step coding).  
DL: ML with multi-layer neural nets, learns from big data.

## History & Applications

History: AI booms & winters.  
Applications: speech, vision, health, robots…  
Modern AI: big data, fast computers, open-source, diverse neural networks.

## ML Workflow

Problem → Collect data → Preprocess → Model → Validate → Deploy

## Taxonomy

target = what to predict  
features = inputs  
example = one data row  
label = target value of example