

Introduction

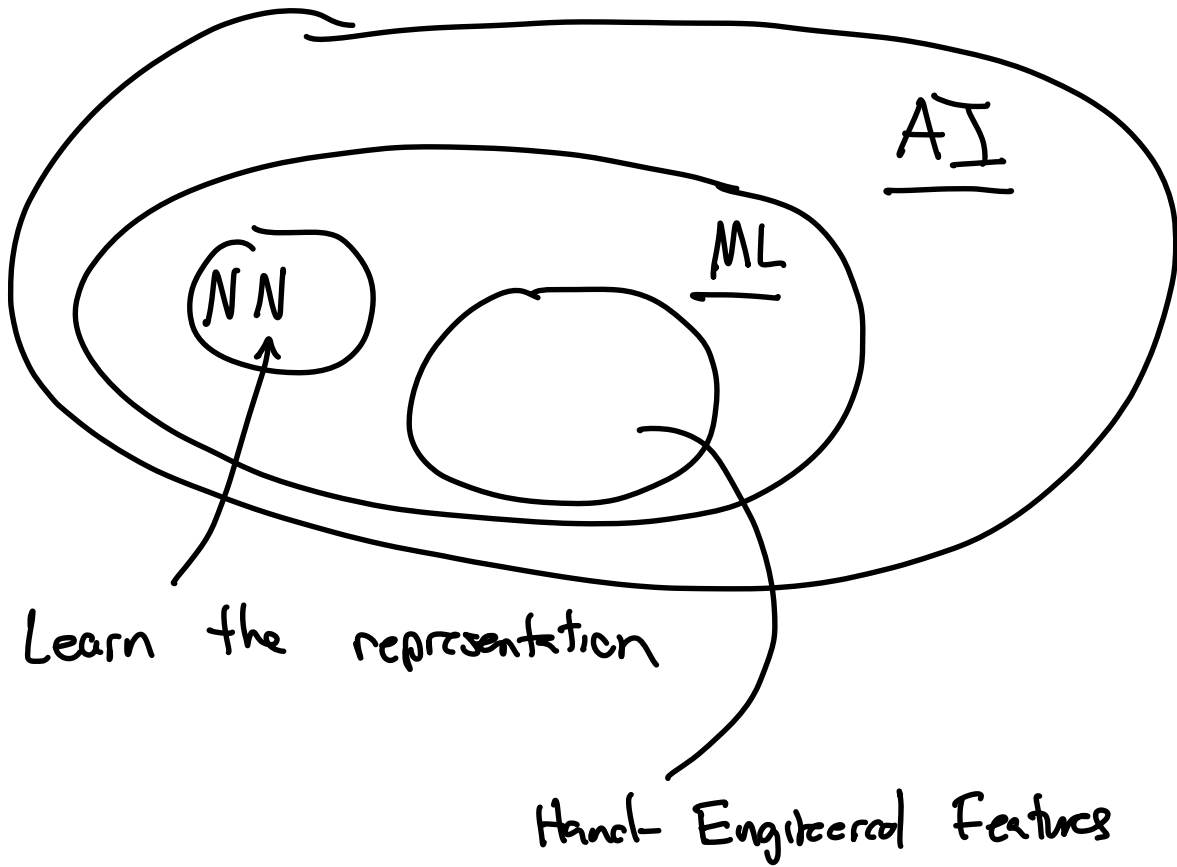
- No AI Background
- No specific computing resources
- Not AGI

History

- 1940s: artificial neuron
- 1950s: perceptron
- 1970s into 80s: AI winter
- 1980s (late): neural network
+ shallow networks (maybe 1 hidden layer)
- 1990s: Mild AI winter
- 2000s: Deep Learning Explosion

↳

- (1) Computing Power (GPU)
- (2) Dataset size (Big Data)



ML

- ★ Supervised (labeled data)
- Unsupervised (not labeled)
- Reinforcement (delayed label)
- Hybrid

Common Tasks

- Regression (predict house sale price)
- Classification (yes/no outputs)
- Clustering (grouping of similar inputs)
- Generation (image, audio, ...)