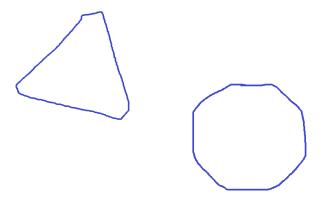


What is AI?

Understand Core Concept of AI, ML, DL, CBR, LLM Applications Opportunities

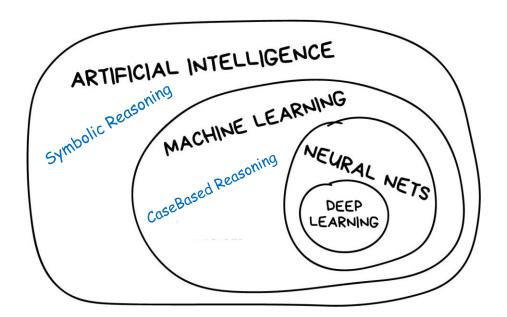
> haesung kim knowhow+ <u>haesung.github.io</u>



- What is being Intelligent?
 - Marvin Minsky 1970

NOT EASY!

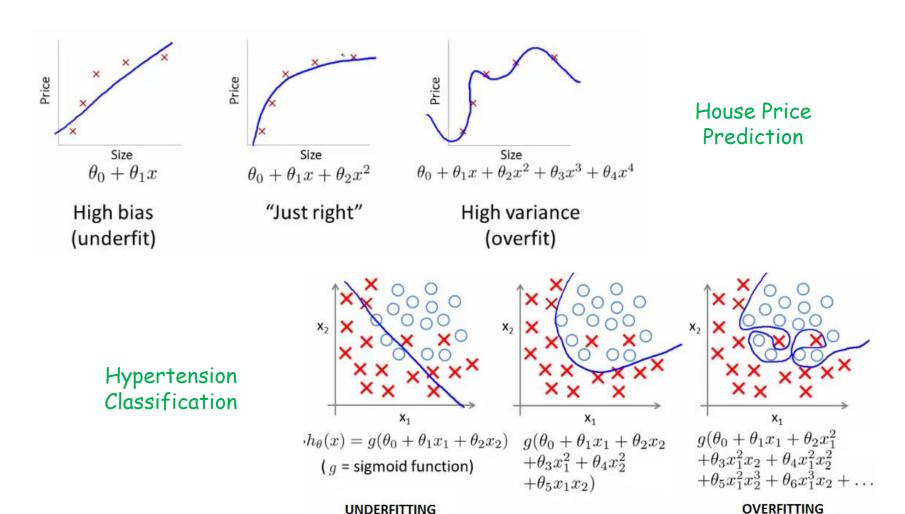
- Cannot Code
- Learn from Data



Hard Areas

- Reasoning 추론
- Prediction 예측
- Classification 분류
- Creation 생성 (LLM)

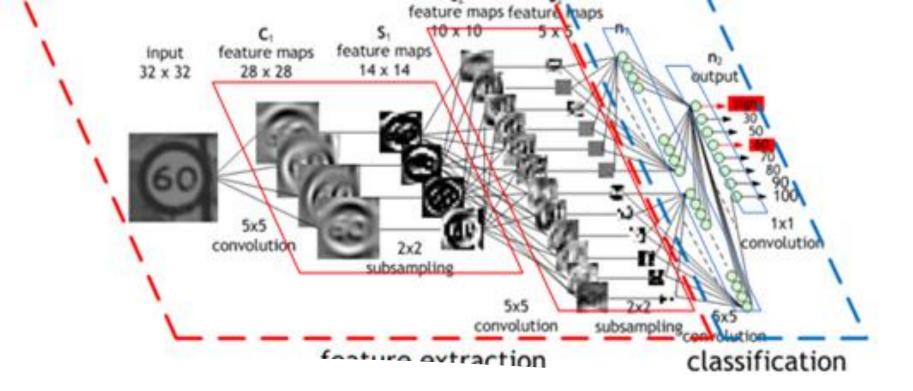
Machine Learning Core Concept



(high bias)

(Source: Coursera, Andrew Ng)

(high variance)



Why Deep Learning is Popular

New fancy word of Neural Net

- Fast = cheap graphic cards (Nvidia)
- Data = huge tagged data
- Easy = CNN (auto feature extraction)

Vision

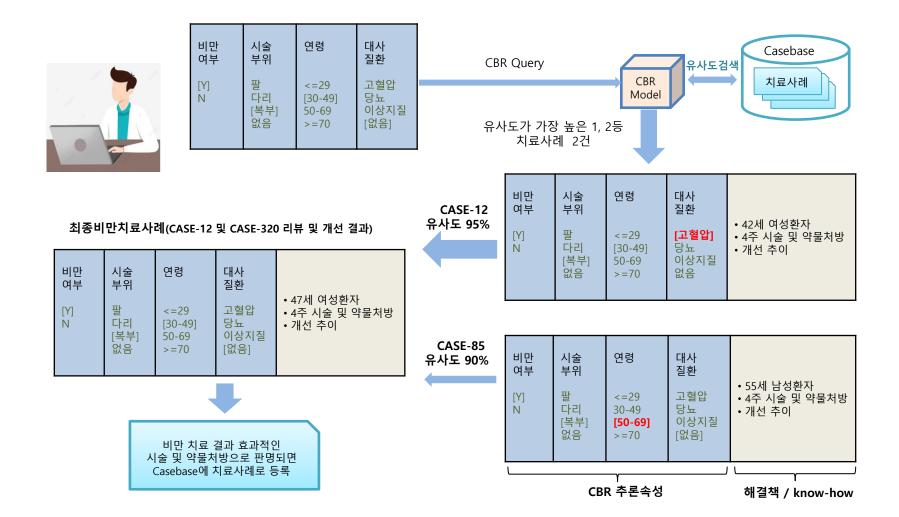
- 97% accuracy better than human expert 95%
- http://cs231n.stanford.edu/

CBR (Case-Based Reasoning, 사례기반추론)

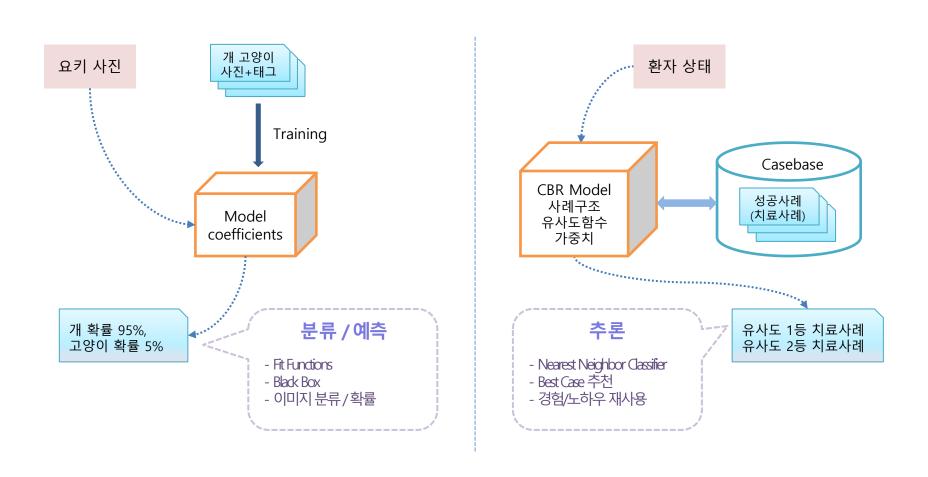
사람이 문제를 해결하기 위하여 추론하는 프로세스를 모델링 한 방법 (Bergmann)



CBR (맞춤형 비만관리 시스템)

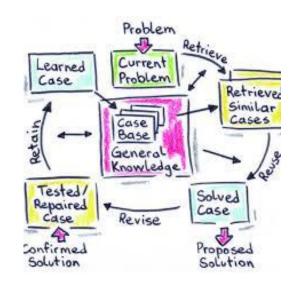


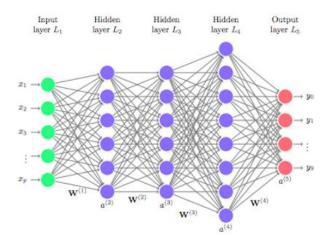
DL vs CBR



Quiz DL/CBR/Rule?

- 1. Metabolic Syndrome Detection 대사증후군판정
- 2. Cancer Detection & Personalized Treatment 암 조기발견 및 개인맞춤형치료
- 3. My Home Finder 스마트직방





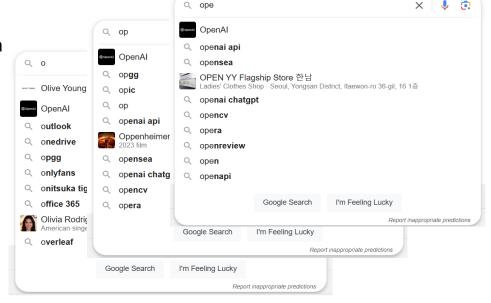
LLM (Large Language Model)

- Why is so Shocking?
 - 2022.11 OpenAl

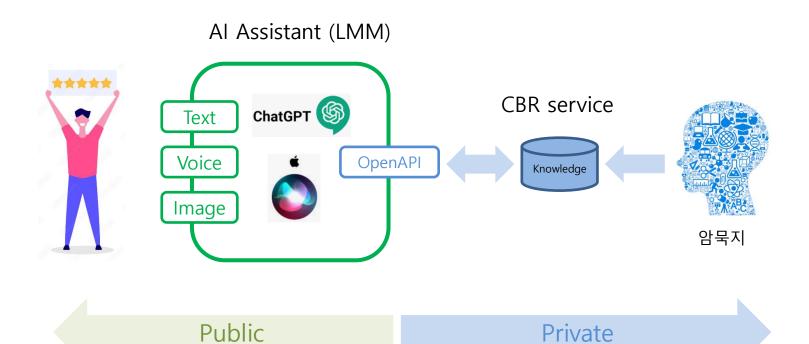
 ChatGPT
 - GPT → Transformer/Pre-Trained/Generative
 - Chat → Reinforcement Learning
 - Huge Parameters & Training Data & Human Feedback



- 2023.03 Google Bard → 2023.12 Gemini
- ChatGPT vs Gemini
- Open Source LLMs Meta Llama
- Threat or Opportunity?



Opportunities



CBR Solution

