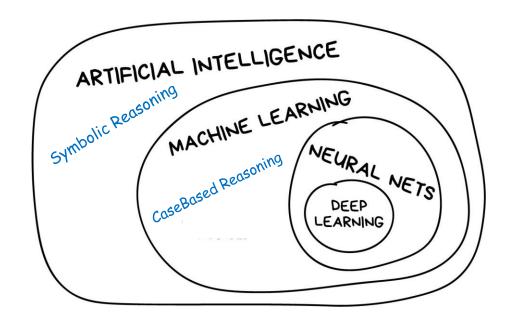


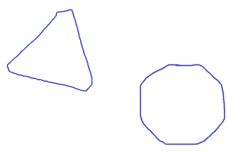
What is AI?

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

Opportunities

haesung kim knowhow+ haesung.github.io

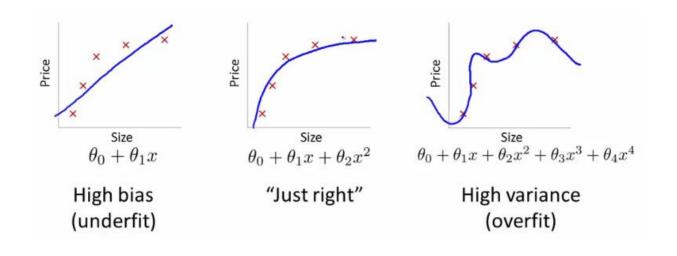




- NOT EASY!
 - Cannot Code
 - Learn from Data

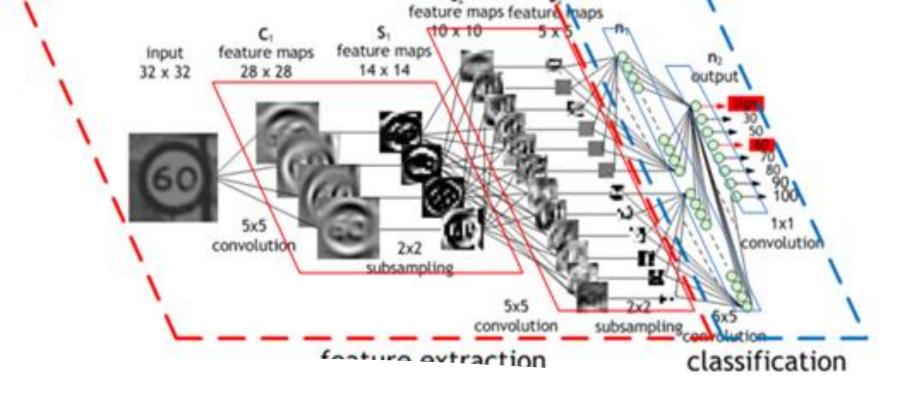
- Hard Areas
 - Reasoning 추론
 - Prediction 예측
 - Classification 분류
 - Creation 생성 (LLM)

Machine Learning



House Price Prediction

(Source: Coursera, Andrew Ng)



Deep Learning

New fancy word of Neural Net

- Cheap graphic cards (Nvidia)
- Huge tagged data
- CNN (auto feature extraction)

Vision

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

CBR (Case-Based Reasoning, 사례기반추론)

- 사람의 문제 해결 추론 프로세스를 모델링한 머신러닝 기술
 - 노하우(암묵지)를 구조화된 사례(형식지)로 시스템에 저장하고
 - 문제 발생시 유사도 측정을 통해 문제 상황과 가장 유사한 사례(해결책)를 제시

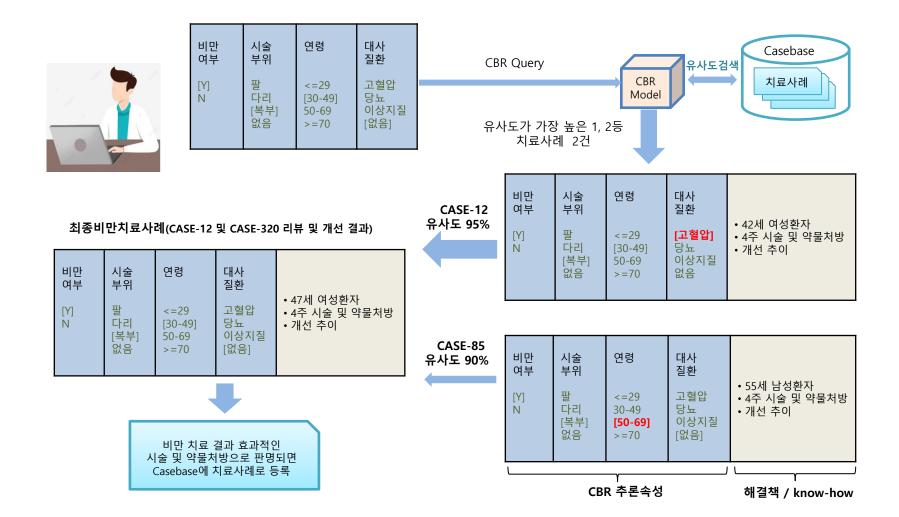
• 장점

- XAI → 제시된 유사 사례를 기반으로 설명 가능한 해결책 생성
- 사례를 추가함으로써 쉽게 추론 성능 향상

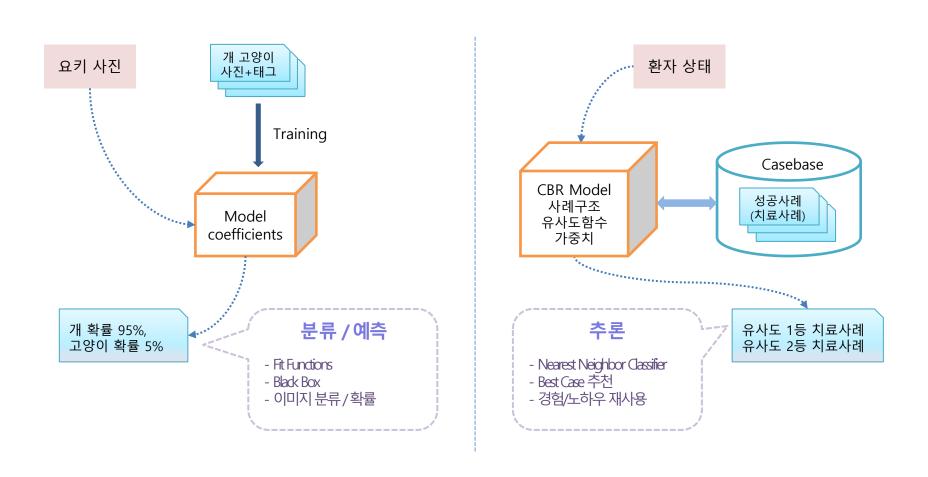
• 적용 분야

- 조직 노하우 내재화 → 의료/헬스케어, MRO(유지보수정비) 등 전문가 노하우
- 개인 맞춤형 추천 → 사용자 취향에 최적인 상품, 정보 추천

CBR (맞춤형 비만관리 시스템)

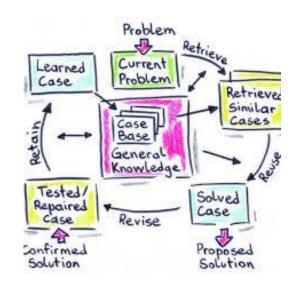


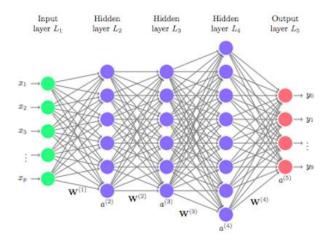
DL vs CBR



Quiz DL/CBR/Rule?

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



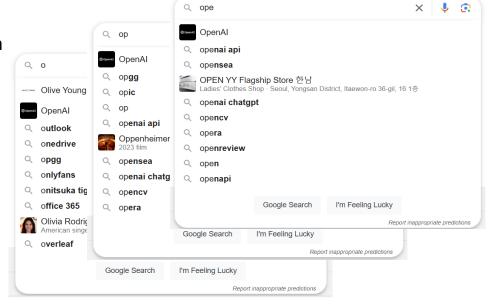


LLM (Large Language Model)

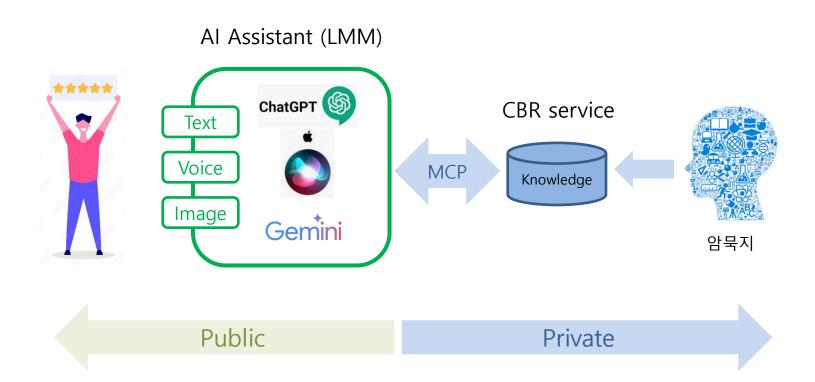
- 2022.11 OpenAl

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

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



Opportunities



환각현상을 최소화하고 정보 유출 없는 AI 서비스 제공

CBR Solution

