Language model 2024-current

2025.04.18

신재익

- 추론 (Reasoning) 능력
- 사고의 흐름 (Chain of Thought, CoT)
- 멀티모달 모델
- 속도 vs 비용

LLM Release Timeline

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	<u>La</u>	2025.01.20	DeepSeek-R1		
		2025.02.25	Claude 3.7-Sonnet		
2024.08	Phi 3.5-mini, 3.5- MoE, 3.5-vision	2025.02.28	GPT-4.5	2025.04.05	Llama 4-Scout, 4- Maverick
2024.10.23	Claude 3.5-Sonnet			2025.04.09	Google Gemini 2.5
2024.10.23	(V2), 3.5-Haiku	2025.03	Mistral-small 3.1	2023.04.09	Flash
2024.12	Phi 4, 4-mini, 4- multimodal	2025.03.06	QwQ	2025.04.14	Bitnet b1.58 2B4T
CoT	OpenAl o1, o1-mini,	2025.03.24	Qwen 2.5-VL	2025.04.15	GPT-4.1, 4.1-mini,
2024.12.06	o1-pro	2020.00.24	QWSH ZIO V Z		4.1-nano
2024.12.06	Llama 3.3	2025.03.27	Qwen 2.5-Omni	2025.04.17	OpenAl o3, o3-mini, o4-mini
2025.01.20	DeepSeek-R1	2025.03.26	Google Gemini2.5 Pro		
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OpenAl

- 2024.12.06: OpenAl o1, 01-mini, o1-pro
 - CoT 기능 추가한 추론형 멀티모달 모델
- 2025.02.28 : GPT-4.5
 - 마지막 비 추론 모델
- 2025.04.15 : GPT-4.1 , 4.1-mini , 4.1-nano
 - 4.5보다 매우 저렴
- 2025.04.17 : OpenAl o3, o3-mini, o4-mini

Anthropic Claude

- 2025.10.23 Claude 3.5-Sonnet (V2), 3.5-Haiku
 - Computer use
- 2025.02.25 : Claude 3.7-Sonnet
 - 추론모델(유료), vibe coding

Google Gemini

- 2025.03.26 : Google Gemini 2.5 Pro
 - CoT 내장
- 2025.04.09 : Google Gemini 2.5 Flash
 - Adaptive Thinking

Google Gemma

- 2025.03.12 : Gemma 3 1B , 4B , 12B , 27B
 - 멀티모달, CoT 내장

Meta Llama

- 2024.12.06 : Llama 3.3
- 2025.04.05 : Llama 4-Scout , 4-Maverick
 - 멀티모달, 최초의 오픈소스 MoE,
 - 밴치마크 cheating 논란

MS Phi

- 2024.12: Phi 4, 4-mini, 4-multimodal
 - 멀티모달 (오디오포함), CoT
- 2024.08: Phi 3.5-mini, 3.5-MoE, 3.5-vision
 - MoE 지원

- MAI-DS-R1: post-trained DeepSeek-R1 reasoning model
- 2025.04.14 : Bitnet b1.58 2B4T
 - https://github.com/microsoft/BitNet

Mistral

- 2025.03 : Mistral-small 3.1
 - CoT, Kor, vision,
- 2025.03 : Pixtral
 - 멀티모달

DeepSeek

- 2024.12.26 : DeepSeek-V3
 - Chat
- 2025.01.20 : DeepSeek-R1
 - Reasoner, multi-round

Alibaba Qwen

- 2025.03.06 : QwQ
 - 추론모델
- 2025.03.24 : Qwen 2.5-VL
 - Vision-language 모델
- 2025.03.27 : Qwen 2.5-Omni
 - 멀티모달

- 모델 발표
- 2024.12.06: OpenAl o1, 01-mini, o1-pro
- 2025.02.28 : GPT-4.5
- 2025.04.15 : GPT-4.1 , 4.1-mini , 4.1-nano
- 2025.04.17 : OpenAl o3 , o3-mini, o4-mini
- 2025.10.23 Claude 3.5-Sonnet (V2) , 3.5-Haiku
- 2025.02.25 : Claude 3.7-Sonnet
- 2025.03.26 : Google Gemini2.5 Pro
- 2025.04.09 : Google Gemini 2.5 Flash
- 2024.12.06 : Llama 3.3
- 2025.04.05 : Llama 4-Scout , 4-Maverick
- 2024.12: Phi 4, 4-mini, 4-multimodal
- 2024.08: Phi 3.5-mini, 3.5-MoE, 3.5-vision
- 2025.04.14 : Bitnet b1.58 2B4T
- 2025.03 : Mistral-small 3.1
- 2025.01.20 : DeepSeek-R1
- 2025.03.06 : QwQ
- 2025.03.24 : Qwen 2.5-VL
- 2025.03.27 : Qwen 2.5-Omni