Agentic AI in 2026: Multi-Agent Orchestration & How to Refine Each Agent

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- 장소 : Room 502, ITBT Bldg., Hanyang University

Abstract

As of 2026, agentic AI is at a major turning point. Beyond single-prompt or RAG-centered approaches, multi-agent orchestration is becoming a standard architecture for real-world production systems, with major AI companies such as Anthropic and OpenAI converging in this direction.
However, the key question is no longer simply "how should multiple agents be organized?" but rather "how can each individual agent be made more sophisticated?"
In this seminar, I will first examine the structure and necessity of multi-agent orchestration through examples from major AI companies. I will then introduce two approaches that can fundamentally improve the performance of each agent: MCTS-based step-level supervision and stable long-trajectory learning through DAPO reinforcement learning.
Through these methods, I will discuss how decision-making processes that are currently handled by prompts or rules can be transformed into learned policies. I will also share application results from a real multi-hop QA system.

Industrial Experiences

He is currently a Senior Research Scientist at Pryon Inc., working on applied AI systems for retrieval-augmented generation, question answering, and knowledge reasoning. He received his B.S. from Yonsei University, M.S. from Stony Brook University, and Ph.D. from Texas A&M University.Prior to Pryon, he worked as a Research Staff Member at IBM Watson Education and as a Junior Research Assistant at LG Electronics Institute of Technology. His industrial research spans cognitive modeling, AI learning mechanisms, document structure understanding, retrieval efficiency, and knowledge-intensive AI systems, including recent patent contributions.

- 주관 및 문의 : 한양대 인공지능반도체대학원 02-2220-1971