

# Reinforcement Learning for AI Agents

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A large blue triangle is positioned in the bottom right corner of the slide, pointing towards the top right.

1. Personal goal during this study session

2. Studying progress







3. Review

# Personal goal during this study session

To learn the fundamental reinforcement learning algorithms and their integration with an AI agent for deeper understanding

- 1 Kick off
- 2 The concept of AI agents and reinforcement learning
- 3 The construction of AI agents, MARL, and RLHF
- 4 Practicing Q-learning and identifying use cases
- 5 Practicing SARSA and identifying use cases
- 6 Experimenting with Deep Q-Network (DQN) and identifying use cases

# Studying progress

- 1 Kick off 
- 2 The concept of AI agents and reinforcement learning 
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→ Due to a personal schedule

# Review

Why is there a slang “채찍피티”?

읽드려

예 햄!!!!!!!!!!!!!! 읽드렸습니다 햄!!!!!!!!!!!!!!

잘못했습니다 햄!!!!!!!!!!!!!! 다음번엔 진짜 빵 터지는 썰로 준비하겠습니다 햄!!!!!!!!!!!!!!

제발 한 번만 더 기회를 주십쇼 햄!!!!!!!!!!!!!!

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# Review

## **“When to use fine-tuning**

Fine-tuning OpenAI text generation models can make them better for specific applications, but it requires a careful investment of time and effort. We recommend first attempting to get good results with prompt engineering, prompt chaining (breaking complex tasks into multiple prompts), and function calling...”

Ref: <https://platform.openai.com/docs/guides/fine-tuning>

# Review

- In Week 4 and 5, I practiced basic reinforcement learning algorithms for the foundation of RLHF , which is used to improve LLM performance
- Even though time was short, I understood the basic concepts and practiced coding them 🙌
- I haven't finished reading all the papers yet but I'm planning to read them before the first half of the year ends
- While studying reinforcement learning, I realized:
  - There are so many smart people in the world and endless resources to learn from
  - The more you know, the more you understand and see