

Course Introduction

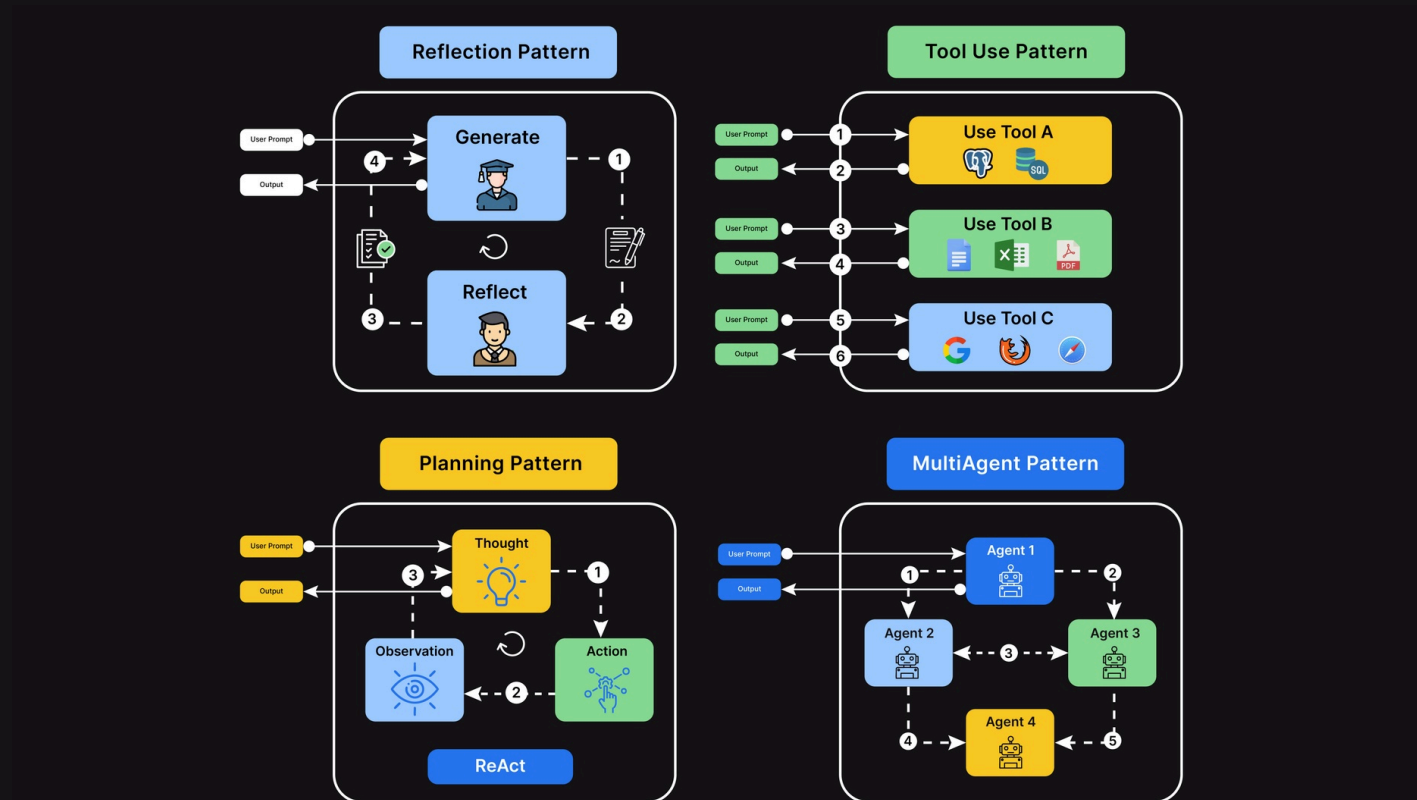
Miguel Otero Pedrido

Senior ML / AI Engineer at Dressipi

Founder @ The Neural Maze



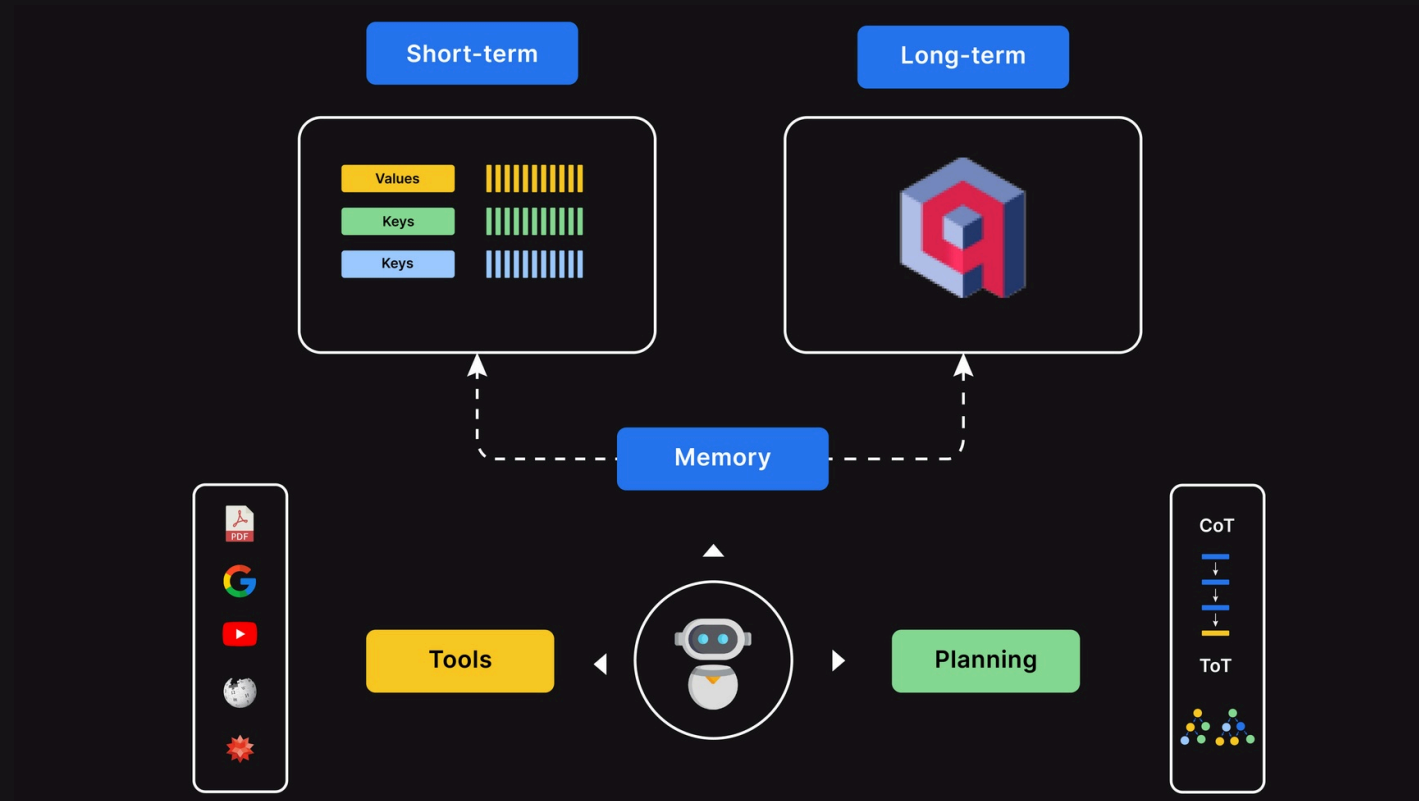
Building AI Agents from Scratch



Agentic Patterns

Source: <https://theneuralmaze.substack.com/>

Building AI Agents from Scratch



What is an Agent?

Source: <https://theneuralmaze.substack.com/>

What Is This Course About?

- Implementing Andrew Ng's 4 Agentic Patterns from scratch
- Reference Resources:
 - Andrew Ng's Talk (What's next for AI agentic workflows ft. Andrew Ng of AI Fund): [Watch here](#)
 - DeepLearning.AI Series on Agentic Patterns: [How Agents Can Improve LLM Performance](#)

 AI Ascent

You  Tube

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What's This Course About?

Framework-Free Implementation

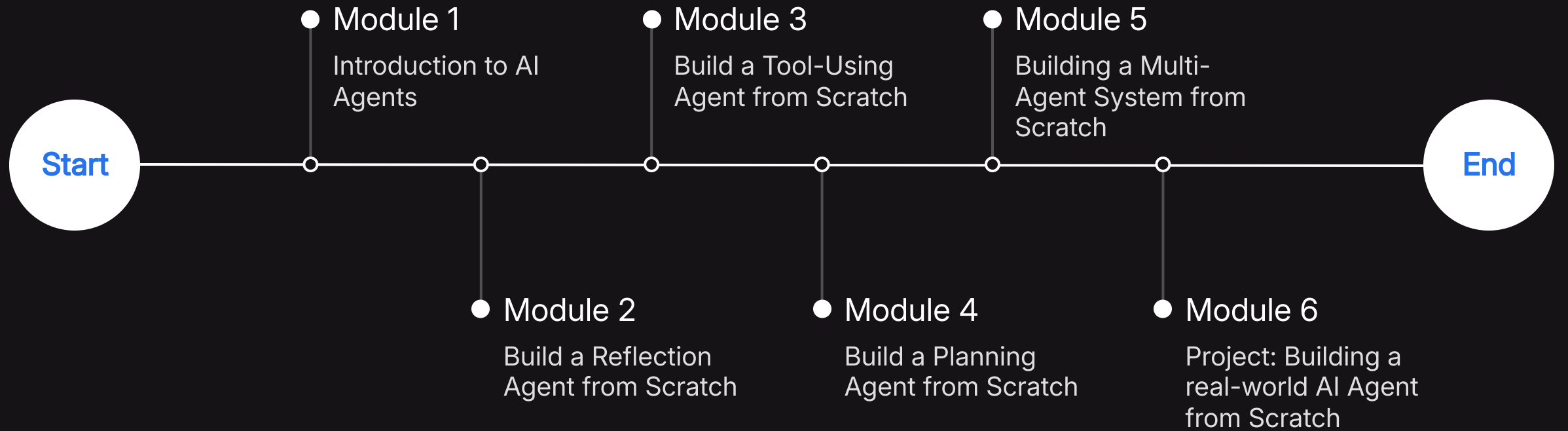
- Focus on building Agentic Patterns using pure **Python** and **LLM API calls**, ensuring a deep understanding of the underlying concepts.
- What We Won't Use:
 - LangChain
 - LlamaIndex
 - CrewAI

What's This Course About?

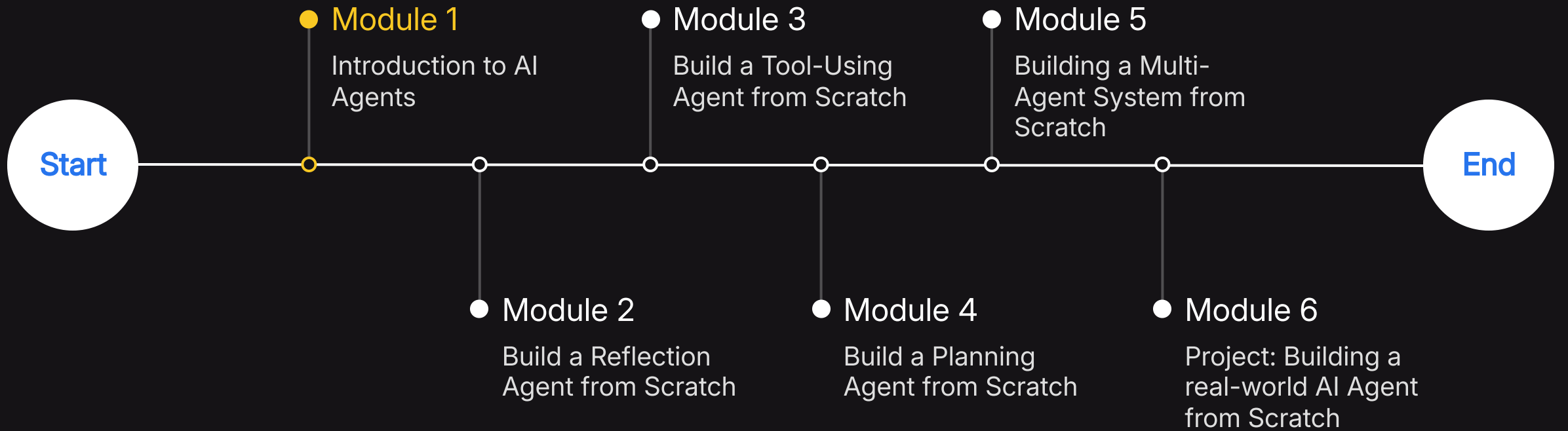
Why Framework-Free?

- Gain **hands-on experience**
- Understand the **low-level mechanics** of Agentic Patterns
- **Build flexibility** to adapt solutions without relying on specific frameworks

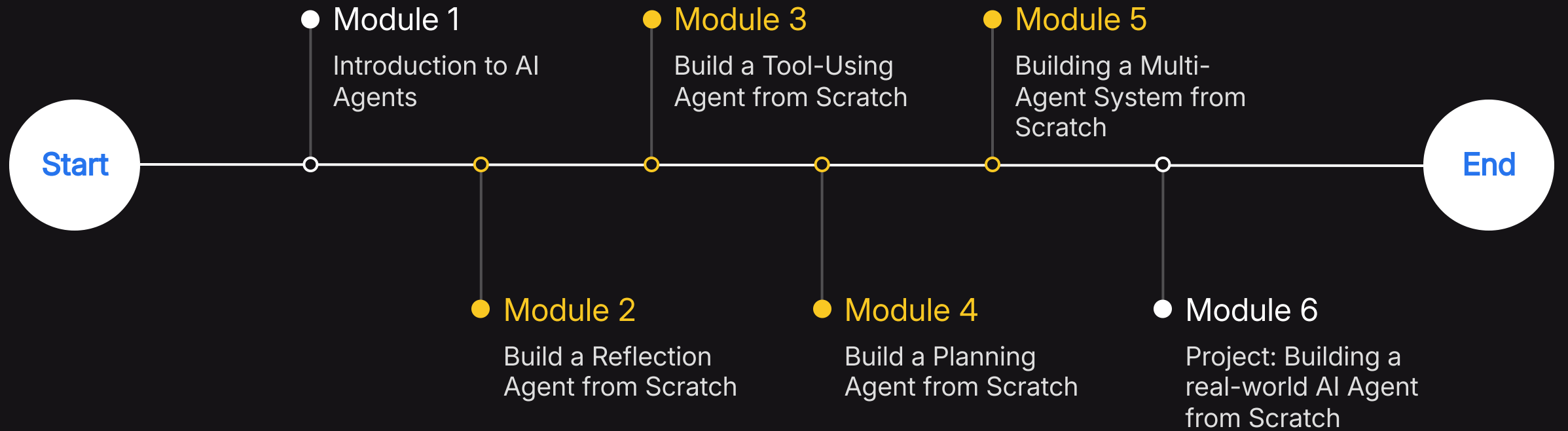
Course Journey



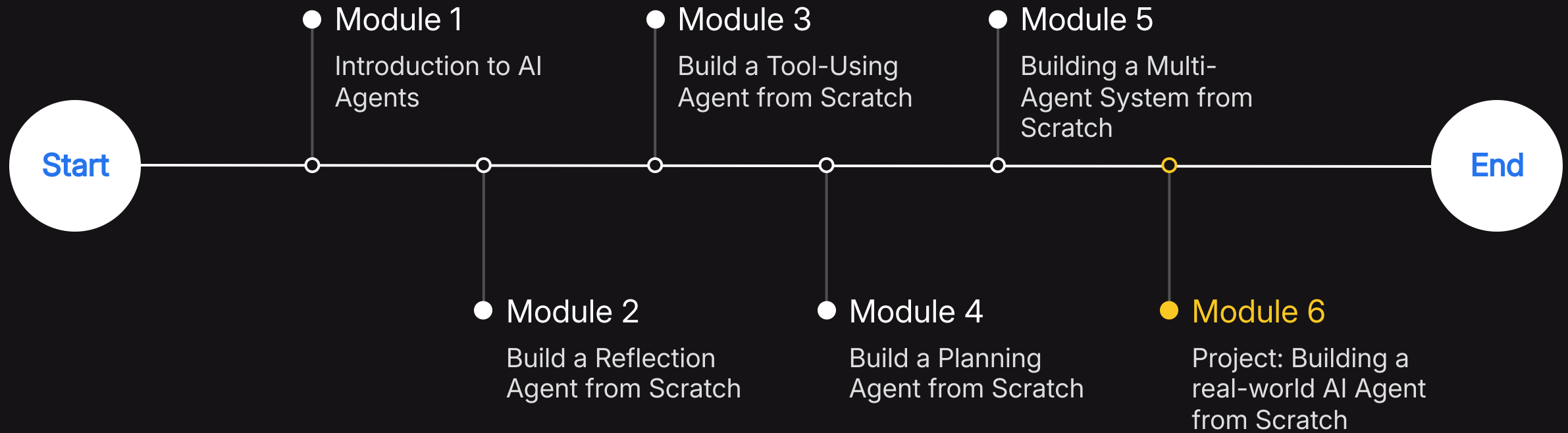
Course Journey



Course Journey



Course Journey



Thanks