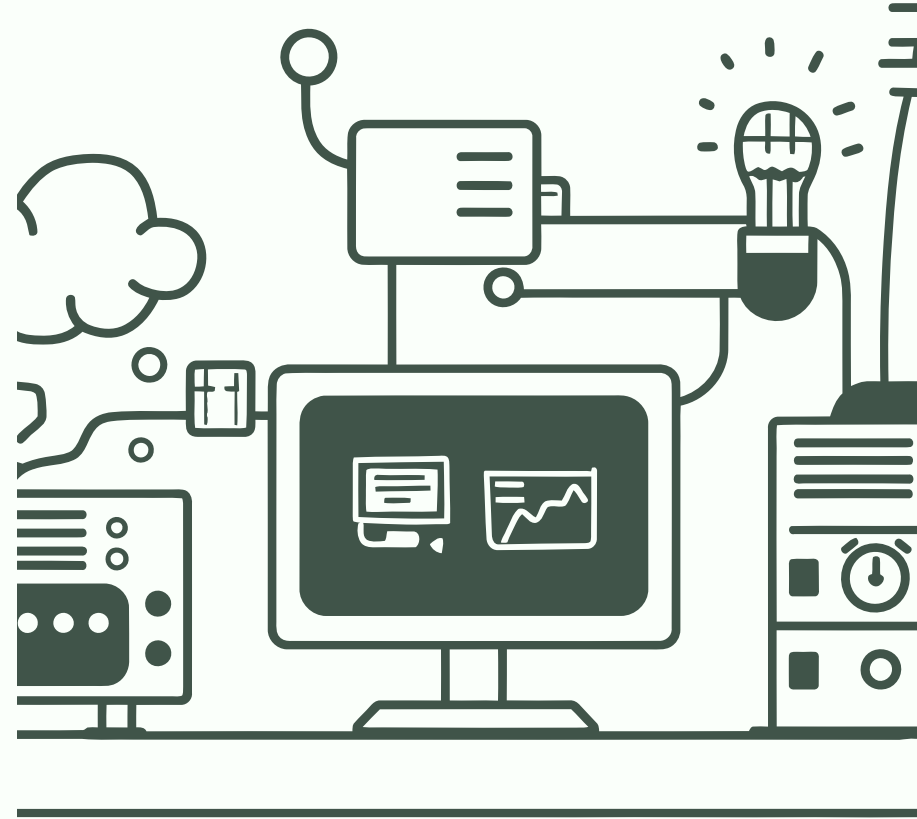


Agentic Memory: Beyond Vector Databases

Agentic memory systems empower AI agents to "remember", learn, and adapt.

Nur Arifin Akbar, Doctoral Researcher at Universita Degli Studi di Palermo



Building Blocks for Dynamic Agentic Memory

Foundational Models

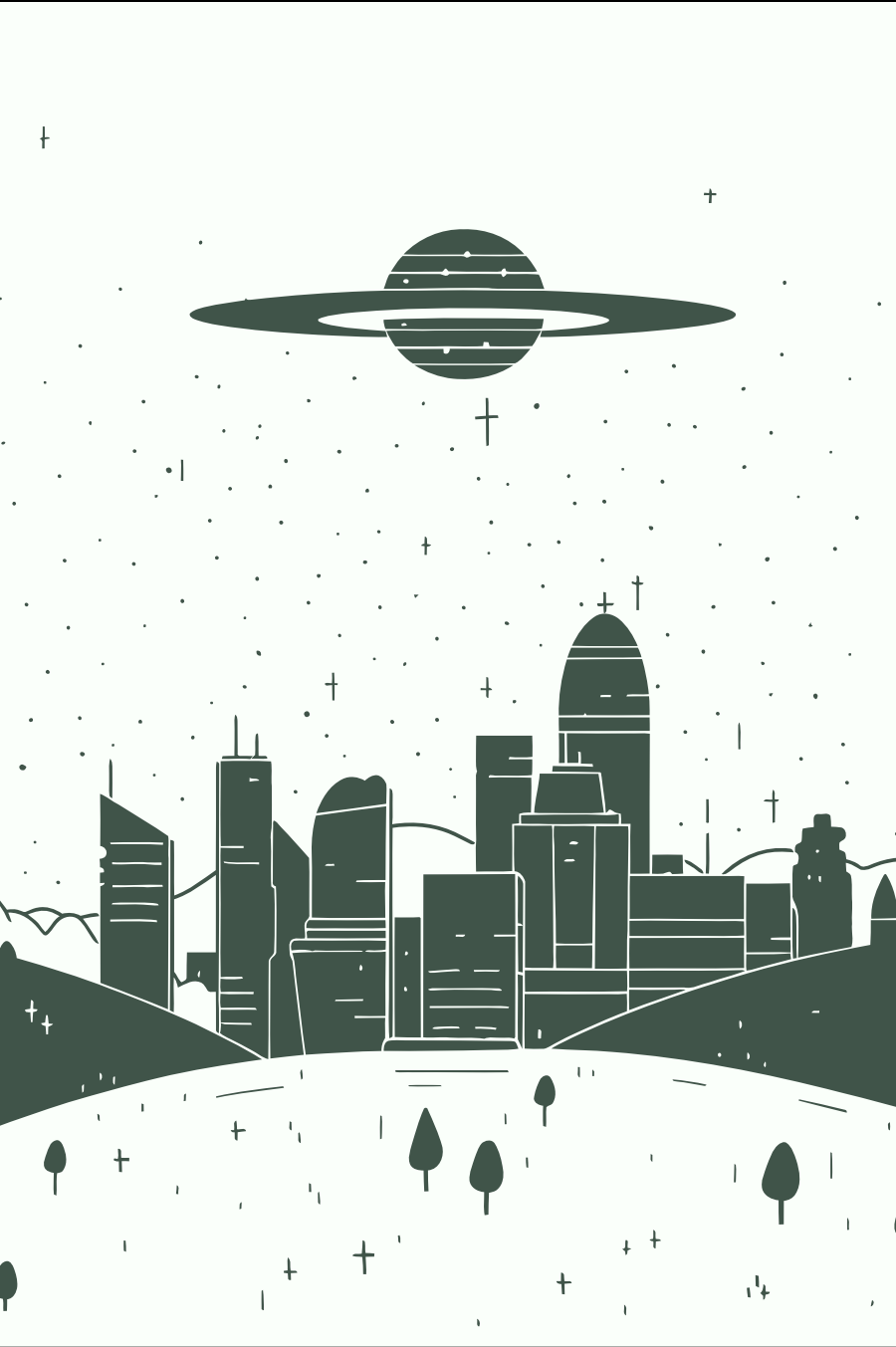
Large-scale, pre-trained language models capture rich context.

Retrieval-Augmented Generation (RAG)

Integrates external knowledge retrieval with generative reasoning.

Dynamic Memory

Iterative feedback loops continuously refine memory content.



The Future Impact of Agentic Memory

1

Transforming AI Systems

Enhance autonomy and foster transparency.

2

Broader Applications

Personalized, context-aware decision support.

3

Beyond Vector Databases

Dynamic, self-updating interfaces improve responsiveness.