Copy of Work Logs

Date	Tasks
10 Jul 2025	• Complete AI load forecasting proposal for SE and share it with Mizan • Discuss the job post on LinkedIn with Aparajita • Probationer Appraisal Meeting: Jaid Jashim • Infinitibit website design and stack selection meeting • Working on DocParser vision capability • Creating an AI load forecasting architectural diagram • Investigating the Langdock platform
11 Jul 2025	• Infinitibit website design meeting • Working on DocParser vision capability • Investigating the Langdock platform • Fixing InfinitiBit assistant docker issue • Study Temporal Fusion Transformer

Agentic RAG: The Future of Intelligent Information Retrieval

Introduction

The evolution of artificial intelligence has brought us to a fascinating crossroads where traditional Retrieval-Augmented Generation (RAG) systems are beingenhanced with autonomous decision-making capabilities. This advancement has given birth to Agentic RAG, a paradigm that promises to revolutionize how weinteract with and retrieve information from vast knowledge bases.

Traditional RAG systems have proven effective in combining the power of large language models with external knowledge sources. However, they often lack theintelligence to make dynamic decisions about when, where, and how to retrieve information. Agentic RAG addresses these limitations by introducing autonomousagents that can reason, plan, and execute complex retrieval strategies.

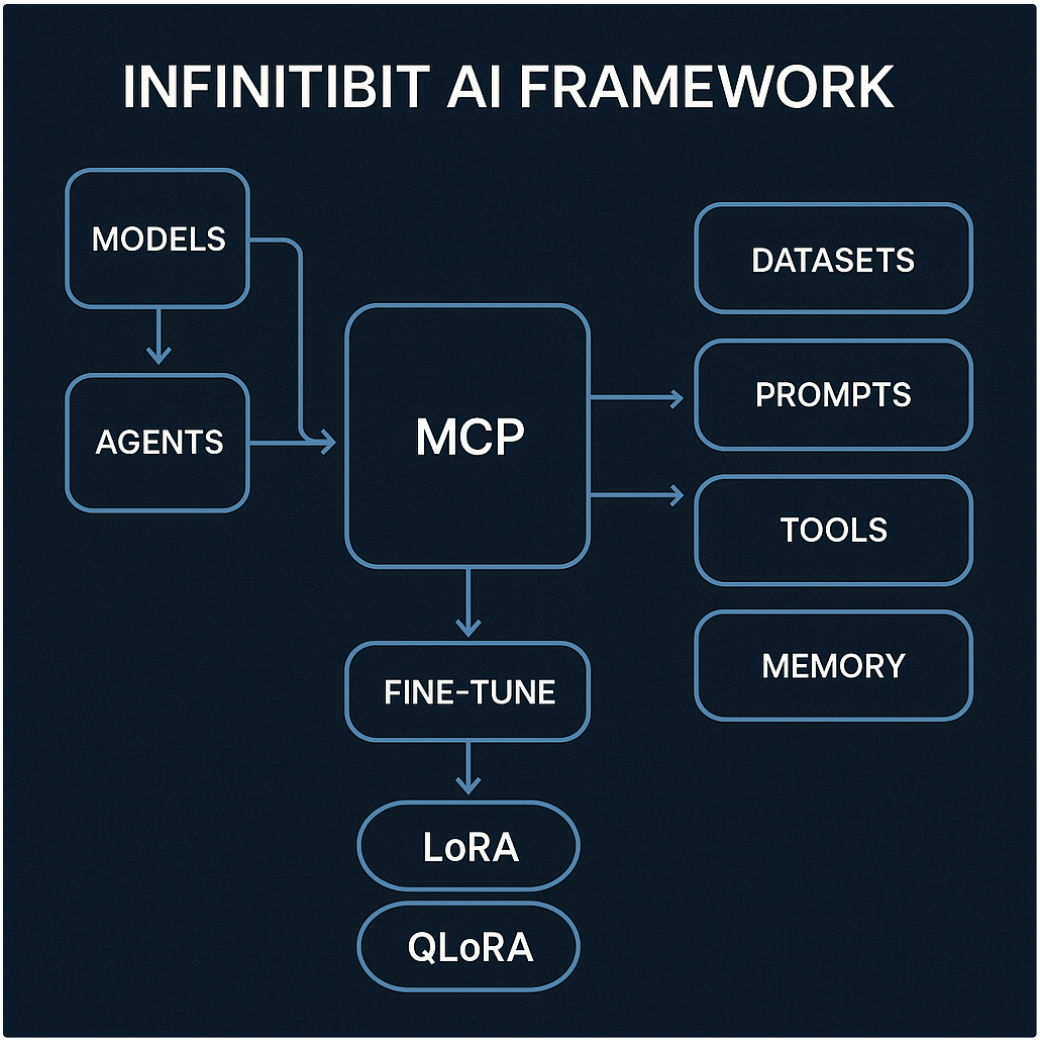
What is Agentic RAG?

Agentic RAG represents a sophisticated evolution of traditional Retrieval-Augmented Generation systems. At its core, it combines the retrieval capabilities of RAG withthe autonomous decision-making abilities of AI agents. This fusion creates intelligent systems that can independently determine the best retrieval strategies forspecific queries.

Unlike traditional RAG systems that follow predetermined retrieval patterns, Agentic RAG systems possess the ability to

reason about the nature of user queries. Theycan analyze the complexity, context, and requirements of each request to determine the most appropriate retrieval approach.

The "agentic" component refers to the system's capacity for autonomous action. These systems can make independent decisions about which knowledge sources toquery, how to structure their searches, and when to combine information from multiple sources. This autonomy enables more nuanced and contextually appropriateresponses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