OpenAI SDK, MongoDB

Part 1: Foundations of Generative AI & Search

- Comprehensive understanding of Generative AI applications

- **In-depth code walkthroughs** of various retrieval mechanisms including text search, vector search, and hybrid search

- **Exploration of Voyage AI** and embedding generation techniques

Part 2: Building Intelligent Search Systems

- **Hands-on implementation** of semantic search mechanisms

- **Practical development** of Retrieval Augmented Generation (RAG) systems

Part 3: Advanced AI Agents & Integration

- Introduction to AI Agents and their capabilities

- Step-by-step implementation of Agentic RAG with MongoDB

- **OPENAI Agent SDK**: Build AI Agents with OpenAI Agent SDK

Part 4: Agentic Chat System

- Agentic Chatbot that can answer queries

- Implement persistent chat history tracking

- Preserve conversation context across interactions

- Implement advanced query-answering mechanisms

DEMO
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THE 5 LEVELS OF THE AGENTIC SPECTRUM

Level 5
Collective or Self-Directed Intelligence

Level 4
Adaptive Autonomous Agent
Maintains persistent memory, learns from feedback, self-corrects, and adapts strategy over time. Operates semi-independently

Level 3
Conttextual Reasoner
Uses short-term memory and structured context. Can plan within a single session but doesn't act auton-

Level 2
Reactive Assistant
Responds directly to user input. No memory, goals, or autonomy

Level 1
Reactive Assistant
Responds directly to user input. No memory, goals, or autonomy