# What is Agentic AI?

### **Introduction**

Before diving into Agentic AI, it's crucial to understand the **evolution of AI through its core stages**. These levels help us see how AI is transforming from basic systems to autonomous agents capable of innovation and organization-level decision-making.

### 🔢 1. Levels of Artificial Intelligence

#### ✓ 1.1 ANI – Artificial Narrow Intelligence

- **Definition:** All systems that are trained to perform a single or narrow task.
- Examples:
  - o Google Maps
  - Facial recognition
  - o Email spam filters

### ✓ 1.2 AGI – Artificial General Intelligence

- **Definition:** AGI refers to an AI system that can perform any cognitive task a human can do, with reasoning, learning, and self-adaptation.
- Goal: Create AI that can generalize knowledge across domains.
- Status: Still in research; we haven't achieved full AGI yet.
- The 5 Levels of AGI (Modern Functional Framework)

Level	Description
1. Chatbots	Basic agents that interact using scripted or generative language. They follow instructions, but lack reasoning or memory. Example: ChatGPT, Alexa.
2. Reasoners	Agents that can reason over given data, follow logic, and solve problems. They can plan, break down tasks, and provide explanations. Example: LangChain Reasoning Agents.
3. Agents	Autonomous systems that can set goals, take actions, use tools, and reflect. They operate in environments with minimal human intervention. Example: AutoGPT, BabyAGI.
4. Innovators	Creative systems that can invent new ideas, strategies, or designs. They go beyond predefined knowledge to innovate. Example: Early forms of generative design and AI researchers.
5. Organizations	Multiple AI agents collaborating like a company. These systems can manage teams, make executive decisions, and function like structured AI ecosystems. Example: AI collectives like CrewAI or AI management layers in future startups.

#### **✓ 1.3 Generative AI**

- **Definition:** All that creates content such as text, images, videos, or code.
- **Examples:** ChatGPT, DALL·E, Midjourney, Sora
- Applications: Content creation, design, education, storytelling

### **✓ 1.4 Chatbots**

• **Definition:** Al-powered conversational tools designed for task automation or information delivery.

#### • Types:

- o Rule-based: Predefined responses
- o Al-based: Understand context and user intent
- Examples: Intercom bots, WhatsApp chatbots, Siri

#### **☑** 1.5 LLM – Large Language Models

- **Definition:** Foundation models trained on vast text datasets to understand and generate language.
- Purpose: Power chatbots, assistants, tools like GPT-4, Claude, Gemini
- Functions:
  - Text generation
  - Question answering
  - Coding help
  - Translation

### 🧰 2. What is Agentic Al?

### Q Definition:

Agentic AI refers to **autonomous systems** that don't just respond to a single prompt but can **set goals, plan tasks, act across multiple steps, use tools, and improve themselves over time.** 

They function like intelligent assistants that operate independently to achieve complex outcomes.

#### Key Features of Agentic Al:

- Autonomy Works without constant human prompting
- 2. Planning Breaks down goals into sub-tasks
- 3. **Tool Usage** Uses APIs, search, plug-ins to execute
- 4. **Memory** Remembers context and learns from past actions
- 5. **Reflection** Self-evaluates and adjusts its own process
- 6. **Collaboration** Can work with other agents or systems

### **X** Popular Agentic AI Frameworks:

- AutoGPT Multi-step goal-based autonomous agent
- BabyAGI Lightweight framework for task execution
- LangGraph Flow-based AI agent framework
- CrewAI Multi-agent collaboration system
- OpenAl Assistants API Customizable tool-using agents

# 🔁 LLM vs Agentic AI: Comparison Table

Feature	LLM (e.g., ChatGPT)	Agentic AI (e.g., AutoGPT, LangGraph)
Prompt-based	Yes	No – works on long-term goals
Autonomy	No	Yes
Memory	Session-based	Persistent memory
Tool Usage	Manual	Autonomous and strategic
Task Execution	Single response	Multi-step planning and acting
Self-improvement	Limited	Yes (via feedback loops)

# 🚀 Real-Life Use Cases of Agentic Al

- 1. Personal AI Assistants
- 2. Business Process Automation
- 3. Code Refactoring Tools
- 4. Market Research Bots
- 5. Research Agents
- 6. Al Co-founders for Startups

### Future of Agentic Al

- AI will manage projects, teams, and even businesses
- Collaboration between humans and AI agents
- Increased need for ethical control and oversight
- Rise of Al-driven organizations (Level 5 AGI)

### Conclusion

From **Chatbots to Agentic AI**, we are witnessing a major shift in how AI interacts with the world. As we climb the AGI levels—from **simple conversations to autonomous innovation and AI organizations**—Agentic AI stands as the **bridge between today's AI and the superintelligent systems of the future**.

Understanding Agentic AI now is your entry point to being part of that future.

#### Learn With Me (YT: Subhan Kaladi)