

Agentic AI: The Next Evolution of Artificial Intelligence

AI systems that are goal-directed, autonomous, and capable of taking initiative

"AI that acts like an agent – not just reacting, but deciding."



by azmeena abduljabbar

Key Characteristics of Agentic AI



Autonomy

Acts independently without constant human intervention



Goal-Oriented

Focuses on achieving predefined or self-determined objectives



Planning & Reasoning

Plans steps, evaluates options, adapts strategy



Tool Use

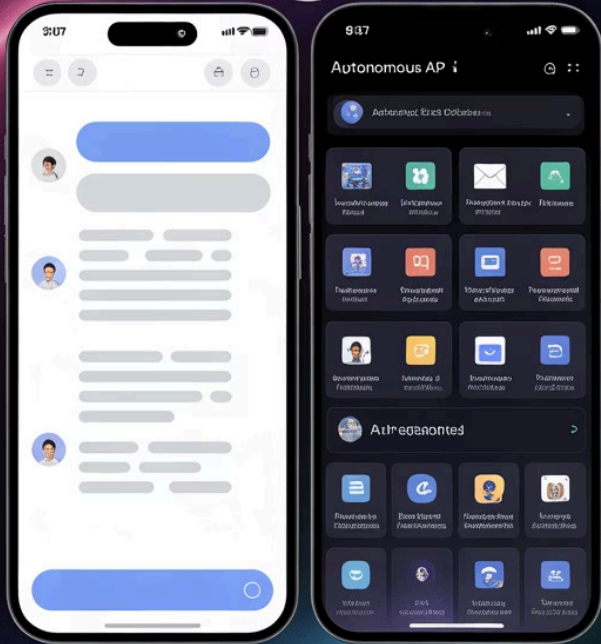
Uses APIs, databases, external tools to accomplish tasks



Agentic AI vs Traditional AI

Feature	Traditional AI	Agentic AI
Input-Output Model	Yes	No
Fixed Tasks	Yes	No
Autonomy	Low	High
Goal Reasoning	No	Yes
Tool Integration	Rare	Common

Next gen AI



Core Components of Agentic AI

Memory

Stores and recalls past actions/results

Observation/Reflection

Evaluates outcomes and adjusts behavior



Planning Engine

Breaks goals into actionable steps

Execution Module

Carries out plans and adapts



Real-World Examples

AI Agents in Research

AutoGPT or BabyAGI for autonomous research tasks

E-commerce Bots

Manage inventory, track orders, communicate with customers

DevOps Assistants

Monitor systems and apply fixes autonomously

Search Agents

Gather, summarize, and report from the web



Agentic AI in Action



Check Calendars

Find available times for all participants



Send Invites

Create and distribute meeting invitations



Secure Location

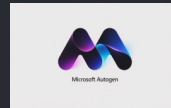
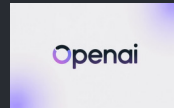
Find venue or create Zoom link



Follow Up

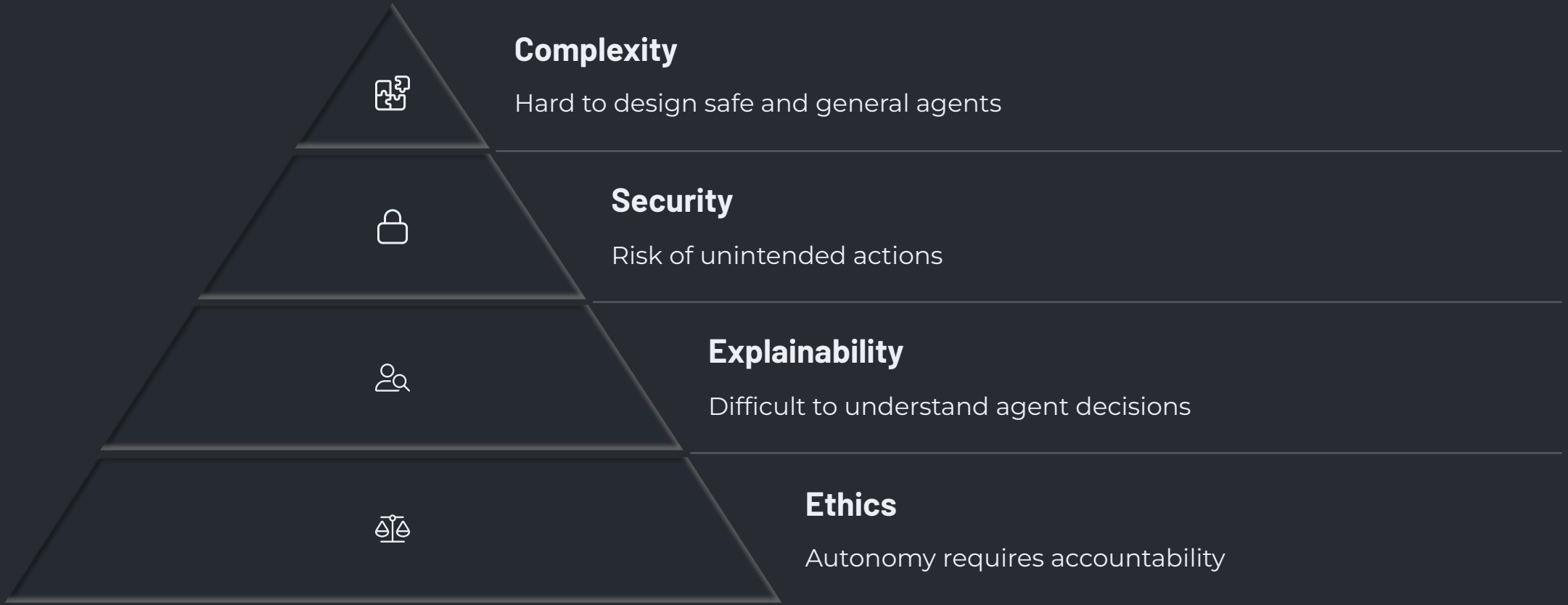
Send reminders and confirm attendance

Tools & Frameworks for Agentic AI



Popular frameworks include OpenAI Agents SDK, LangChain, Autogen Studio, MetaGPT, and OpenRouter

Challenges & Considerations



The Future of Agentic AI



Personal Assistants

AI that truly understands your goals



Research Agents

Autonomous systems for science & discovery



Long-Context Agents

Evolve over time with persistent memory



Enterprise Integration

Seamless operation across business platforms



Summary

1

Autonomous

Independent operation without human guidance

2

Goal-driven

Focused on achieving specific objectives

3

Multi-step

Plans and executes complex sequences

4

Available Now

Tools exist to build your own agents today