Al Agent vs. Agentic Al: An Introduction

Defining core concepts and distinction







- Perceives environment, acts to achieve gagentic Alevolution: From reactive to proactive, goal-driven systems
- Reactive or simple proactive High agency, advanced planning behavior. capabilities.
- Operates within defined parameters. Multi-step execution towards
- complex objectives.

Roots & Rise: Al Agent to Agentic Al

Historical context and modern emergence



1990s

Al Agent Concept Formalized

Early academic work defined agents' perceptions and actions.



Early 2000s

Initial Implementations

Simple agents in games, search engines, and robotics.



Post-2020

Agentic AI with LLMs

Powerful Large
Language Models
enable new levels of
agency.



Present

Rapid Prominence

LLM capabilities drive advanced planning, reasoning, and tool use.

Advancements in Agentic AI are driven by LLM capabilities.

Evolution: from reactive to proactive, goal-driven systems.

Milestones: Early Agents to Autonomous Execution

Key achievements and advanced task automation



Al Agent Achievements

- Self-navigating robots for exploration.
- Expert systems for complex decisionmaking.
- Personal assistants (e.g., early Siri, Alexa).
- Simple automation tasks in industrial settings.

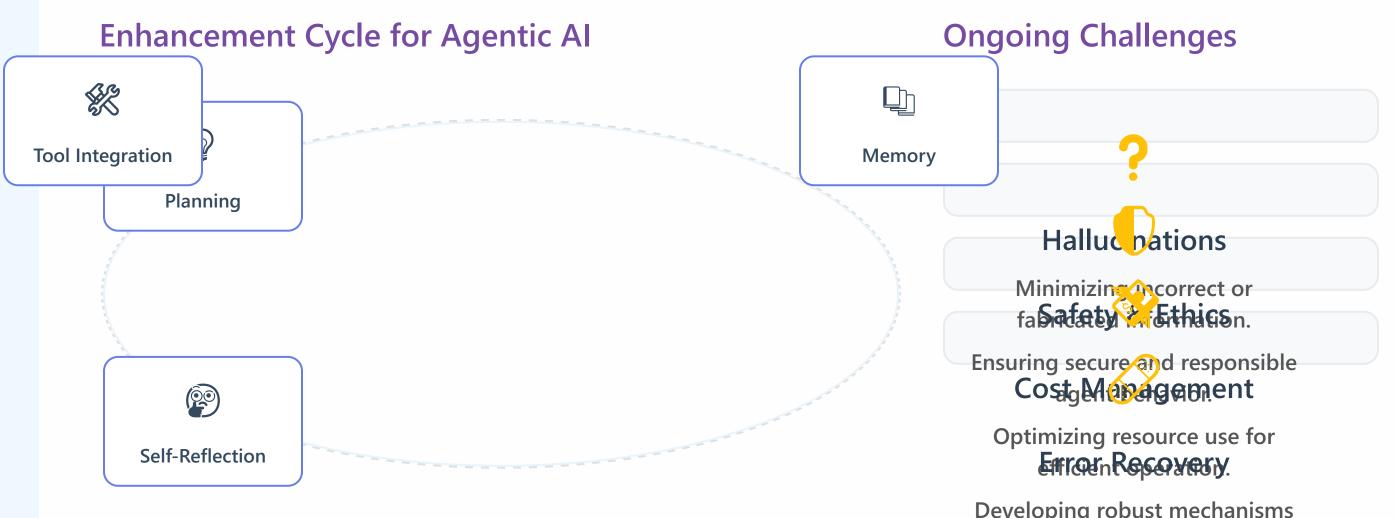


Recent Agentic Al

- Auto-GPT, BabyAGI, SuperAGI frameworks (2023).
- Autonomous research, coding, debugging.
- Complex interaction with various APIs.
- Minimal human intervention for highlevel objectives.
- These systems demonstrate autonomous, multi-step task execution using LLM prompts.
- Agentic AI aims for minimal human intervention, focusing on high-level objectives.

Current Focus: Enhancing Agentic Autonomy

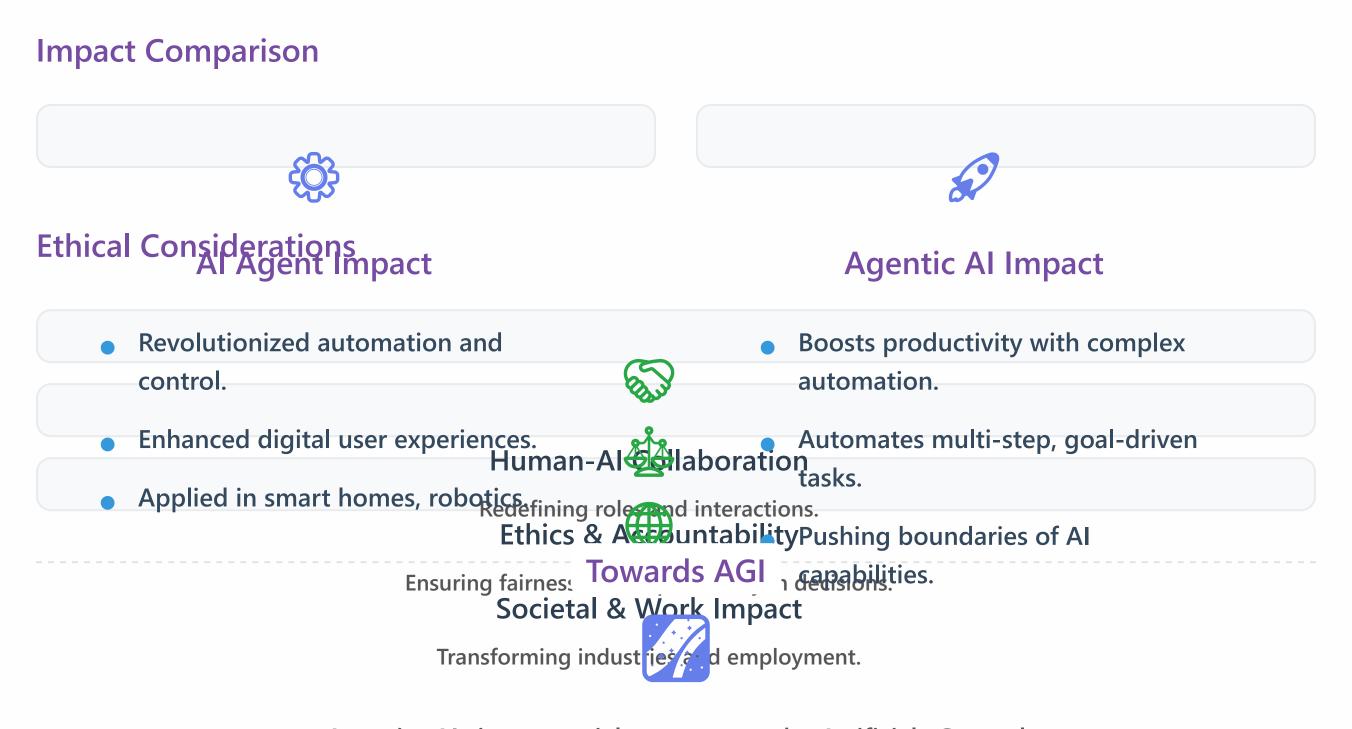
Present developments and ongoing challenges



- Developing robust mechanisms
 Specialized agent frameworks emerge (e.g., MetaGPT for software development).
- Al Agent (General): robotics, smart homes, enterprise automation, simulations.

Transformative Impact & Ethical Considerations

Future implications and path towards AGI



Agentic AI is a crucial step towards Artificial General Intelligence (AGI) through sophisticated autonomy and proactive goal pursuit.