

Hands-On GenAI: LLMs, RAGs, and Agentic Systems for Beginners

Day 8

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Recap

1. Python
2. Flask
3. Artificial Intelligence
 - a. computer vs AI
 - b. computer vs AI vs agents
4. Machine Learning
5. LLM
 - a. Model access
6. RAG

Recap

1. Python: ease of writing code, packages and libraries
2. Flask: package for building web apps
3. Artificial Intelligence: systems can perform tasks that usually require human intelligence (not as simple as following a program from start to finish)
 - a. computer (follows programs, not intelligent) vs AI (can do tasks that require human intelligence) vs AI agents (more autonomous, decision making)
4. Machine Learning: finding relationships/ patterns in data
5. LLM: large language models, text processing and generation model- generative AI
 - a. Model access: through inference by downloading the model, or through APIs (model is deployed on the cloud of the owner/ provider)
6. RAG: retrieval- augmentation- generation model, that reduces LLM hallucinations

AI Agent

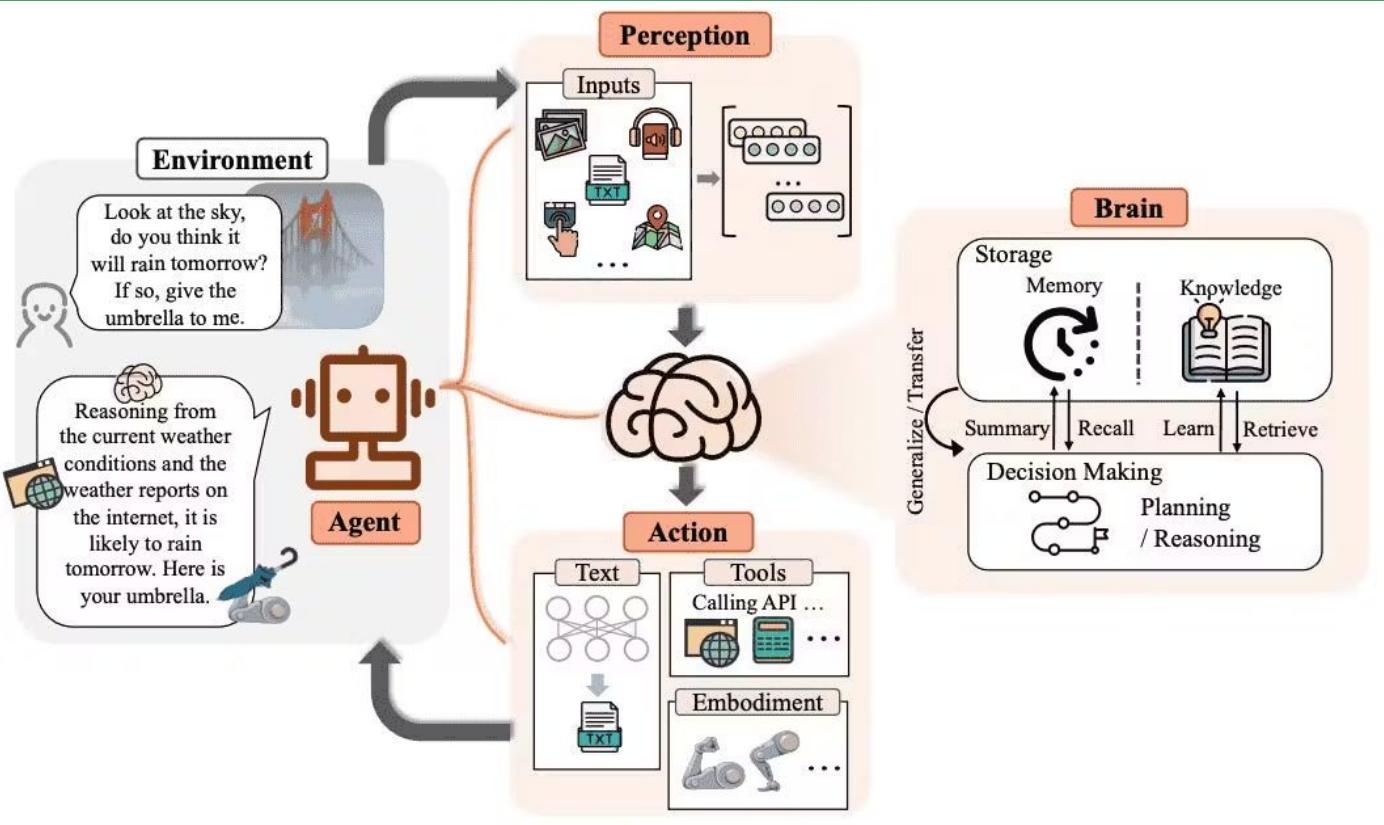
AI models-

- require human intervention
- predefined constraints

AI agents-

- have more autonomy
- require limited human intervention
- have goal-driven behaviour
- have adaptability

source: <https://www.ibm.com/think/topics/agentic-ai>



AI Agent example

Source:
<https://encord.com/blog/ai-agents-guide-to-a-genetic-ai/>

Text Summarizer: Demo

Model vs Agent

Sentiment Analyser Agent: Demo

An Agent in a Project: Demo

Thank You!