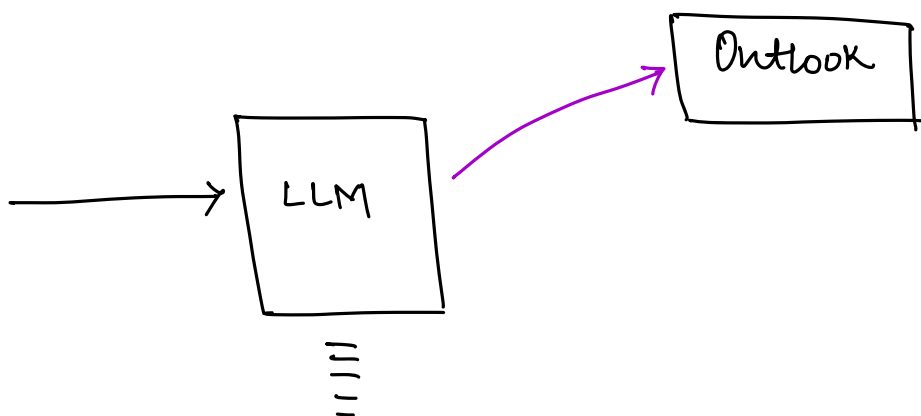


Agenda.

→ Core Components of Agentic AI.

Generative AI.

↳ Type of AI that generates output (text | image | audio or video) based on some pre-trained data.



AI Agent.

↳ Program that takes input, thinks and act to complete a task using tools, memory & knowledge.

→ Autonomous.

→ Independent to make decisions.

⇒ Human feedback.

↳ human in the loop.

Travel Assistant.

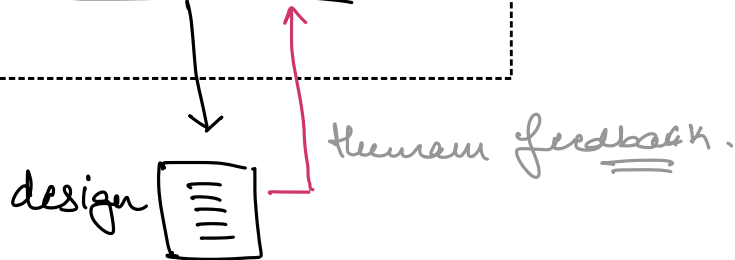
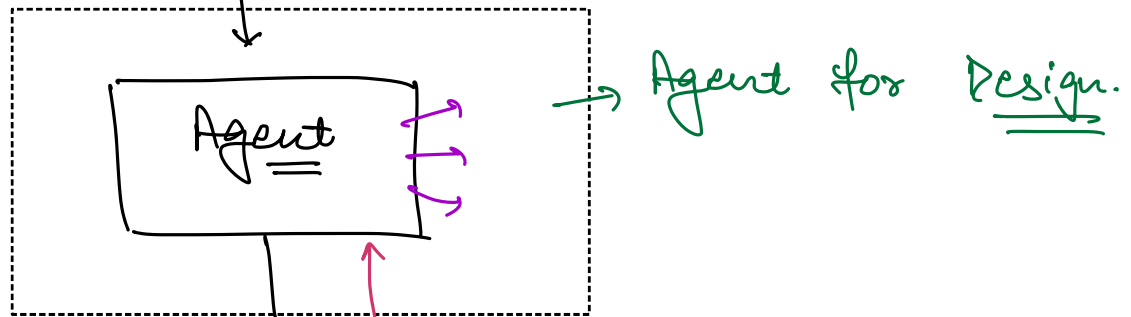
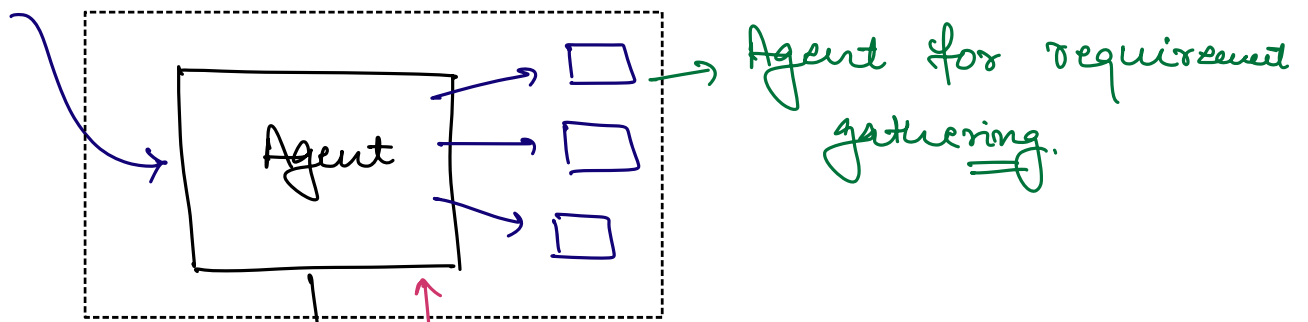
- Check weather
- Compare ticket prices for different Airlines.
- Hotel Bookings.
- Suggest some good places to visit.
- Visa Eligibilities.

Agentic AI is a system where one or more AI Agents works autonomously, thinks, takes decisions & act.

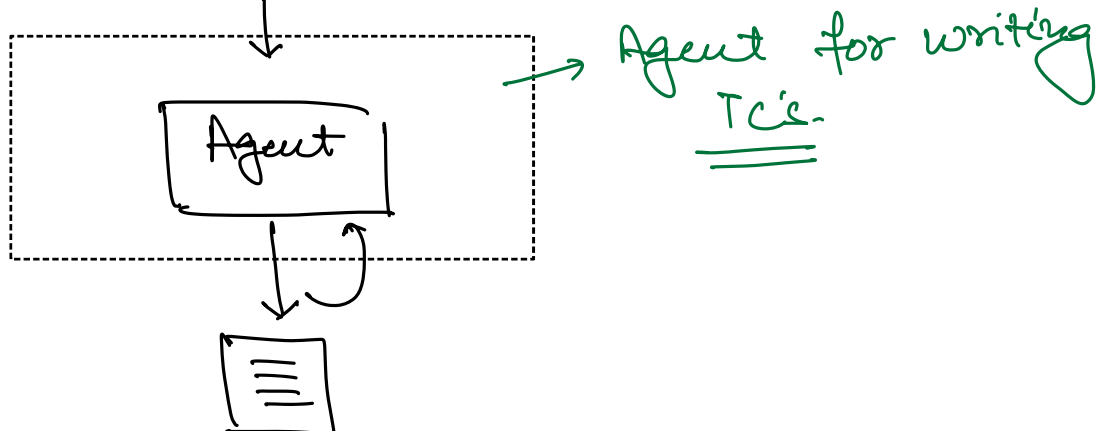
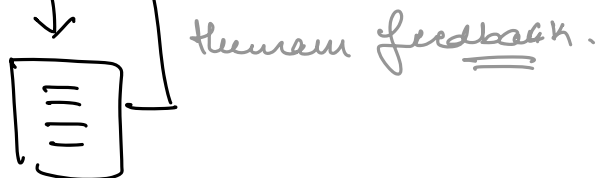
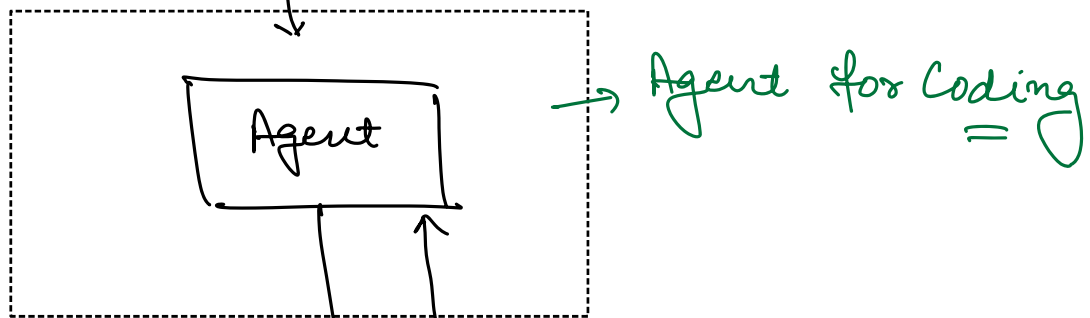
SDLC.

→ Software Development Life Cycle.

- 1) Requirements Gathering.
- 2) Design
- 3) Coding
- 4) Testing
- 5) Deployment.



Vibe Coding



Each AI agent will have 3 fundamental concepts

1. Perception

→ Every agent must be able to sense the environment.

→ Reading the text, audio, video, read data from sensors, - - - - -

2. Reasoning: Once an agent perceives the data, now it should be able to make decisions.

→ It involves context, action & planning

→ LLMs are used during reasoning phase.

3. Actions: Agent must act now.

Book a flight

Write the Code

Deployment - - -

perceive - reason - act loop.

1. Rule Base Agents.

↪ if $\textcircled{x} \rightarrow \textcircled{y}$

2. Learning Based Agent.

3. LLM powered Agents.

Core Components of AI Agents.

1) Model \rightarrow LLM.

2) Tools. \rightarrow External Systems.

3) Instructions \rightarrow How an agent should behave?