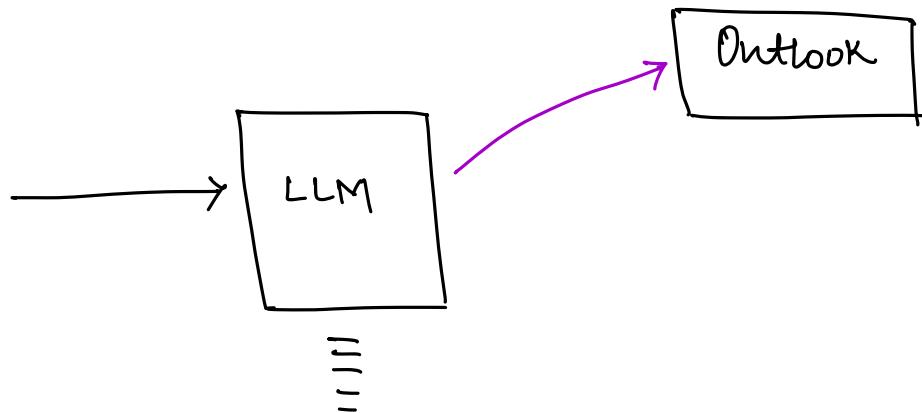


## Agenda.

→ 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.

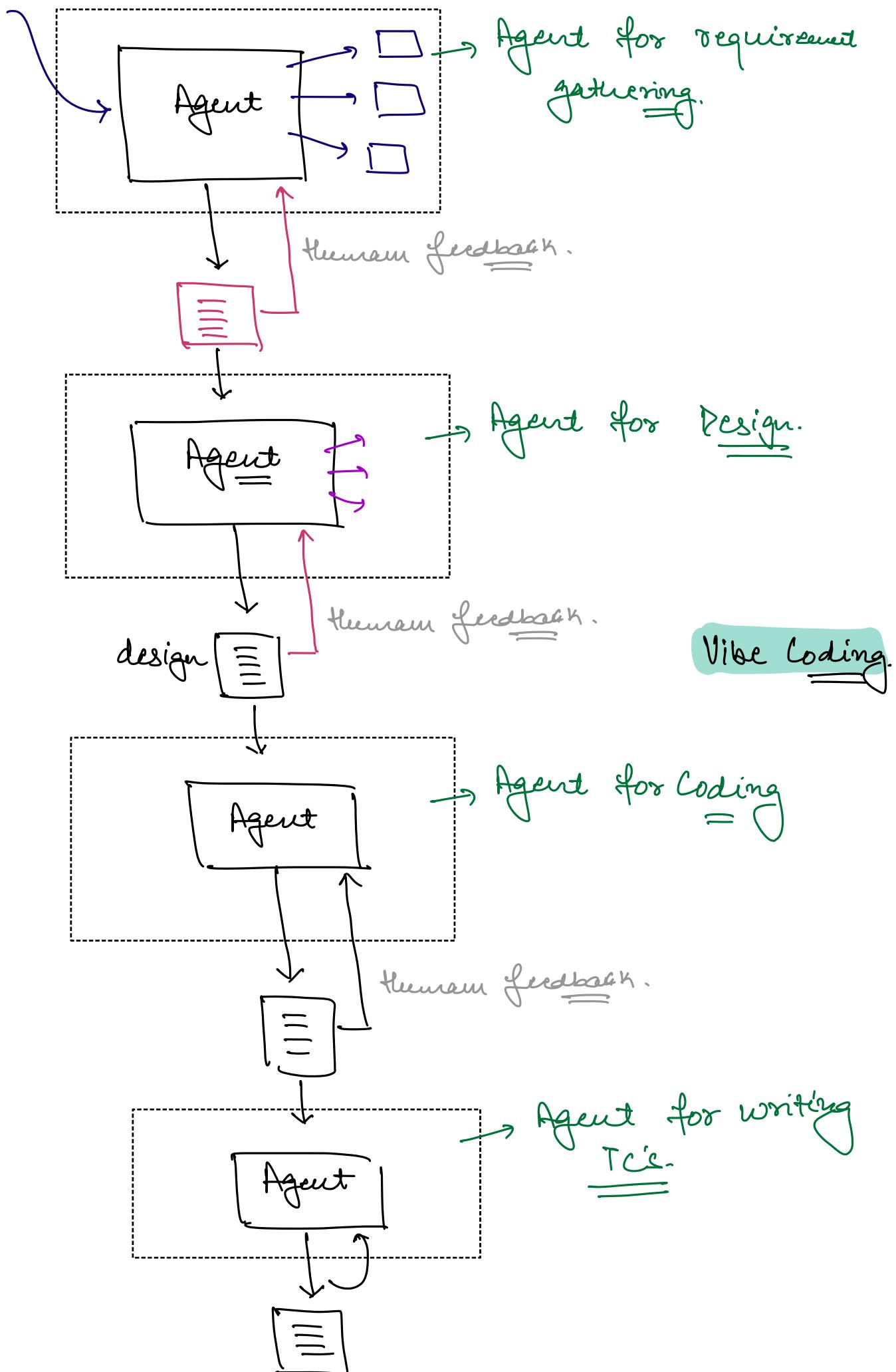
- Check Weather
- Compare ticket fares for different Airlines.
- Hotel Bookings.
- Suggest some good places to visit.
- Visa Eligibilities.

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.



# Each AI agent will have 3 fundamental Concepts

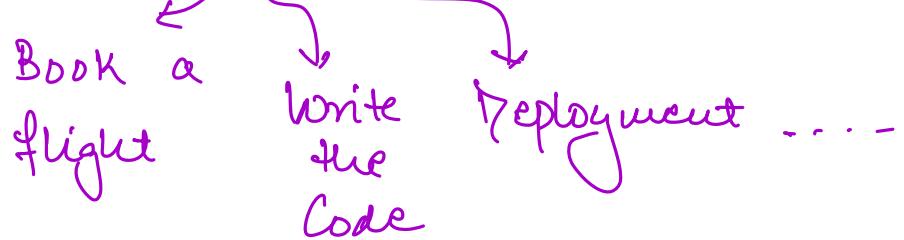
### 1. Perception

- 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.



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?