

## Agenda

- 1) Introduction → Traditional ML → MCP or A2A
- 2) Pydantic Python

Prerequisites → Python → Must

2013 - 2014 → Statistics → Conclusion



Statistical Analysis ⇒ Observation, conclusion.

Machine Learning Algorithm ÷ DATA → Model → Pattern of DATA → Predictions.

Independent And Dependent features

<u>f<sub>1</sub></u>	<u>f<sub>2</sub></u>	<u>f<sub>3</sub></u>	<u>f<sub>4</sub></u>	<u>O/P</u>	<u>TABULAR</u>
-	-	-	-		
House	Aren		Price	<u>O/P</u>	<u>ETL</u>
<u>size</u>	<u>==</u>		<u>==</u>	<u>==</u>	<u>==</u>

2011 ⇒ BIG DATA  
FREQUENTS

BIG DATA ←

2007 ÷ Fb, Instagram,  
WhatsApp

Mu<sup>g</sup> amount of DATA



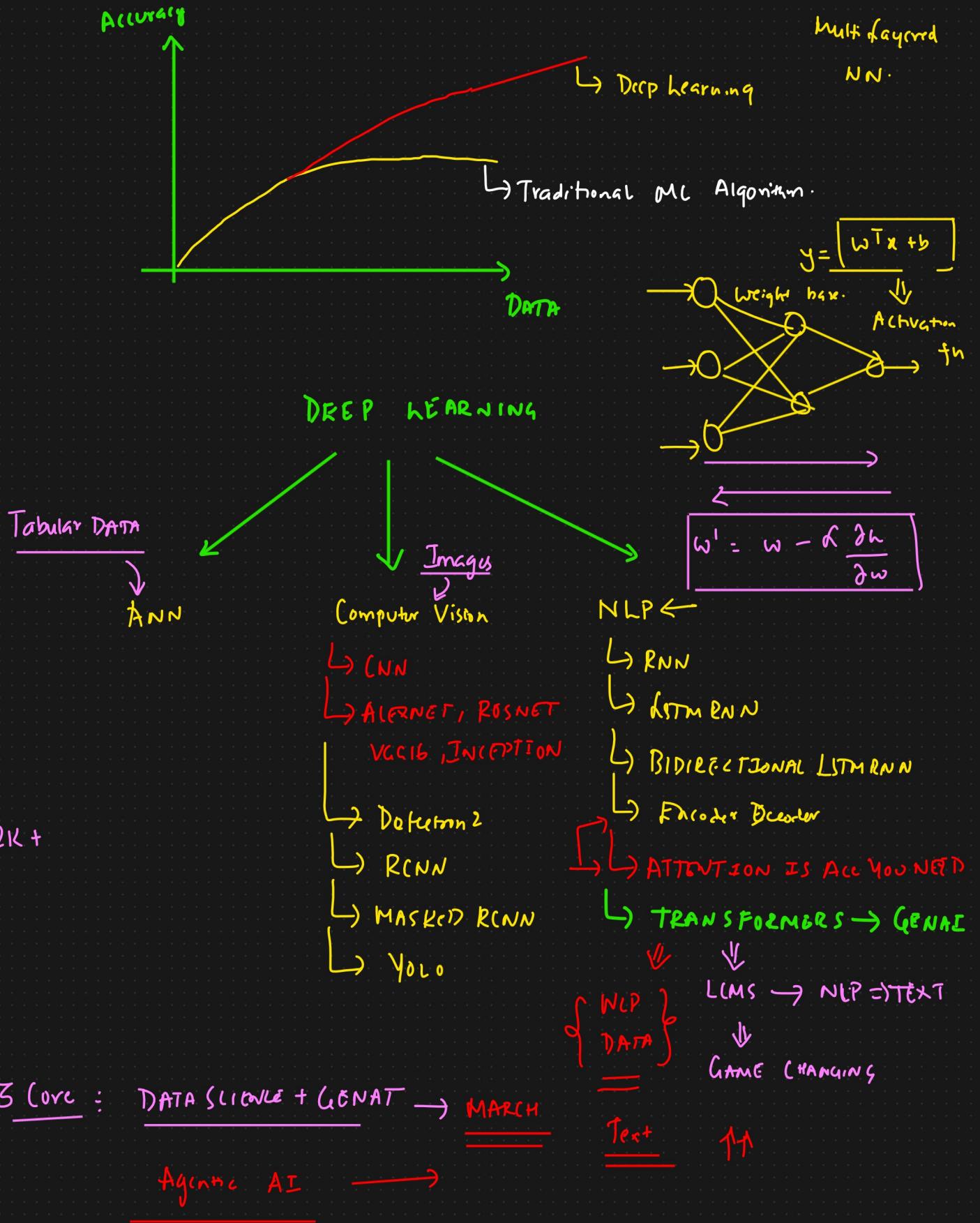
STORE

EXTRACT → TRANSFORM → LOAD ⇒ DATA SCIENTIST

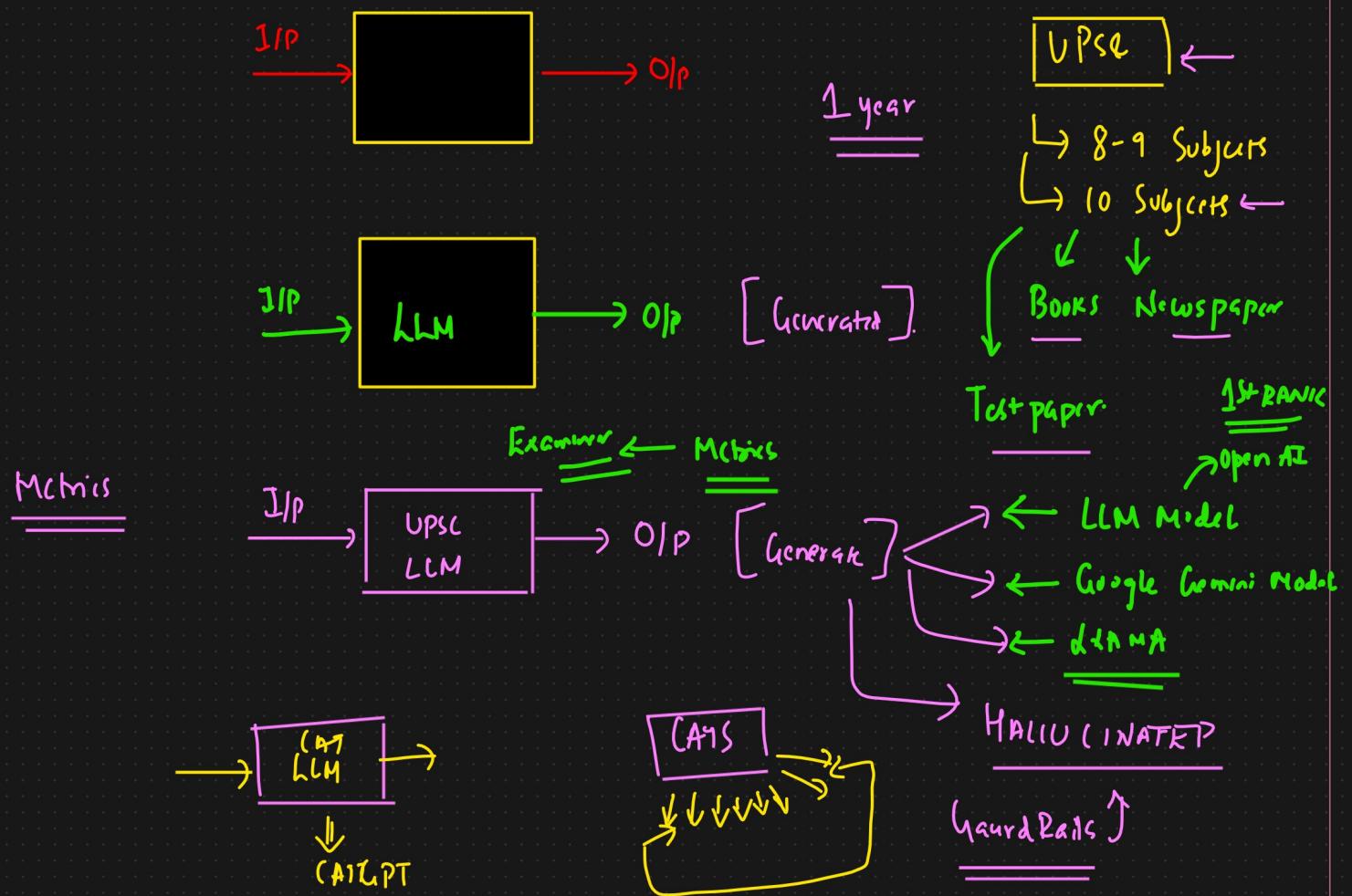
AI → Use this DATA → PATTERNS → Understand our Customer.

Recommendation Engine ÷ Sapiint

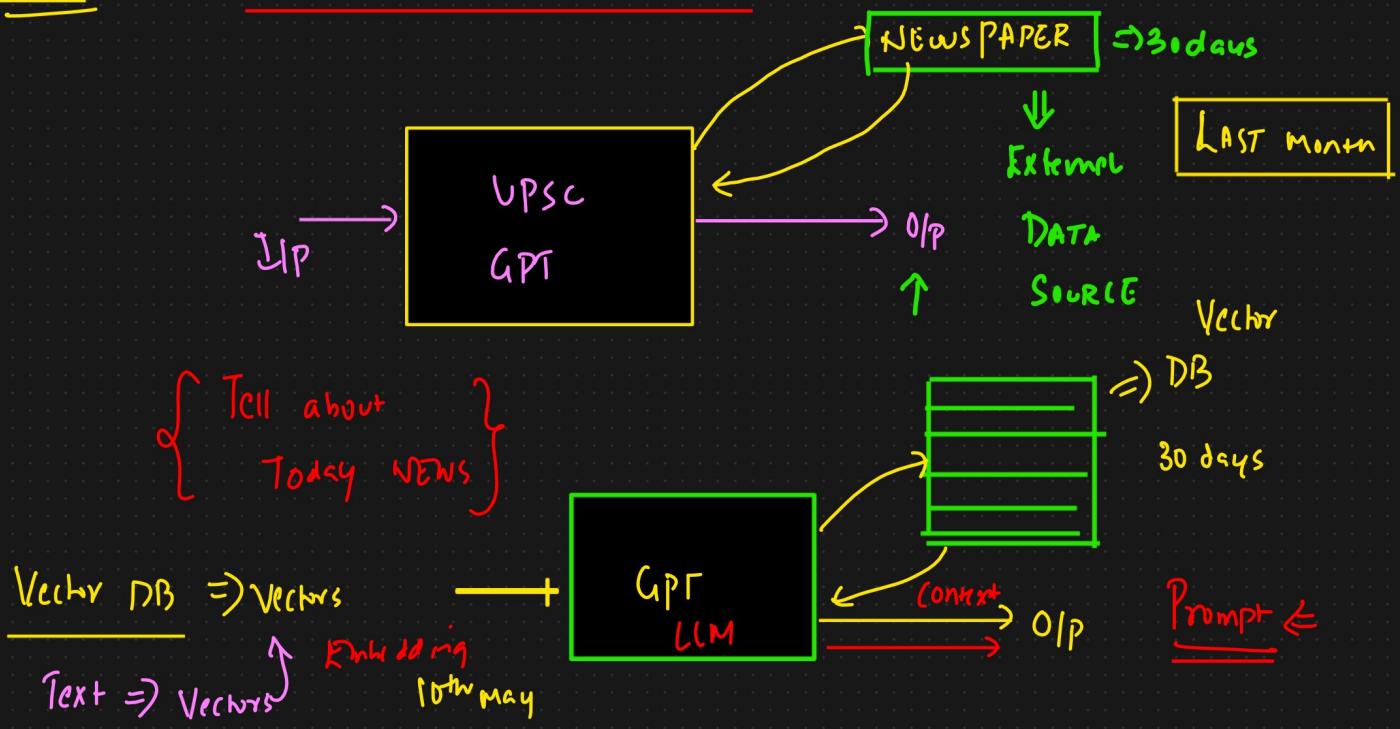
Neural Net



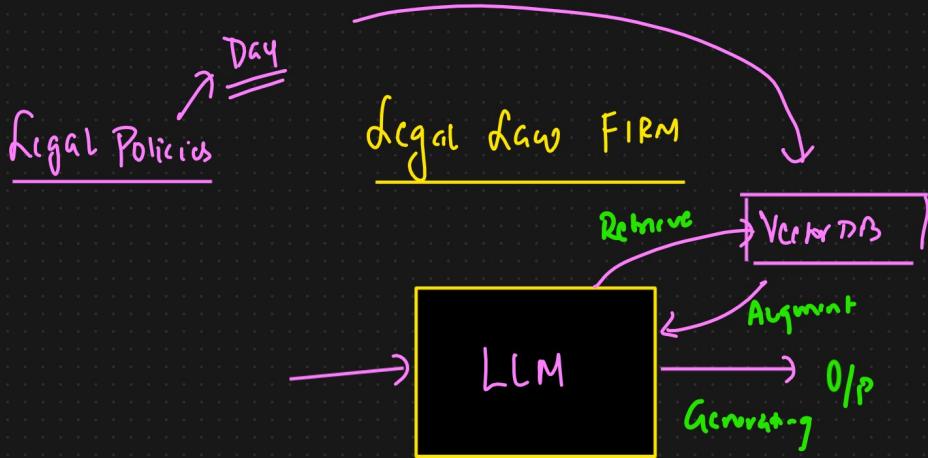
## Generative AI



## RAG → Retrieval Augment Generation



TRADITIONAL RAG's  $\Rightarrow$  Agentic RAG



To focus more on AI

Gen AI Application

Tools

Companies

$\rightarrow$  ARXIV  $\rightarrow$

WIKI

TAVIY

-  
-

Human JS

all your need

Research

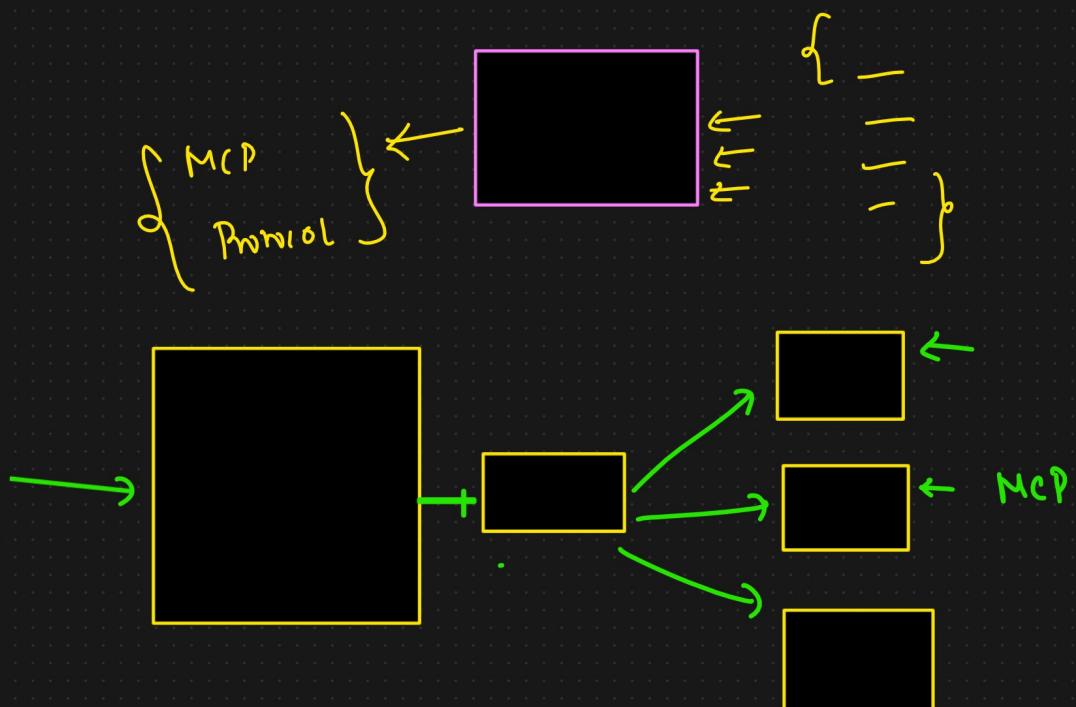
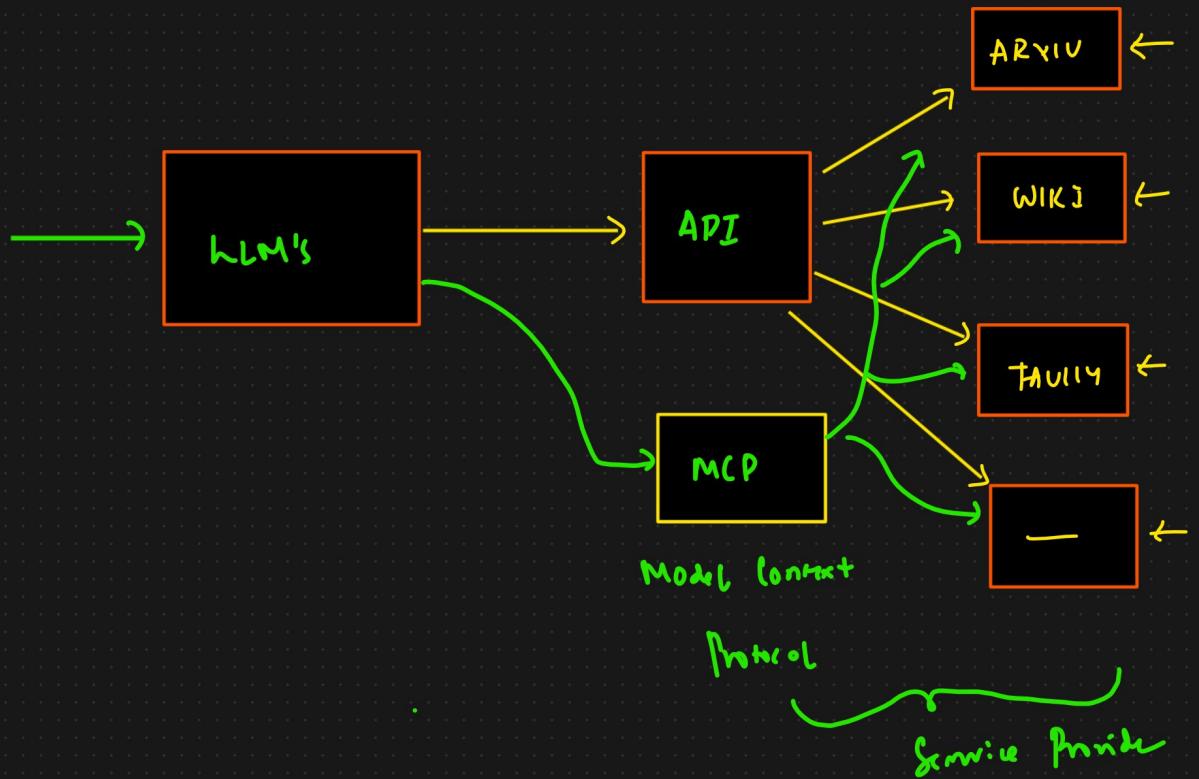
Machine Learning



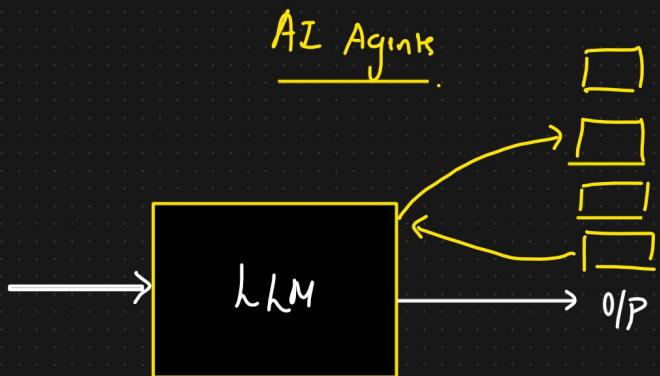
func ():

'''  
'''  
''' ..

Comment In python



# Generative AI Vs Agentic AI



Agentic AI → Complex Workflows → SDLC

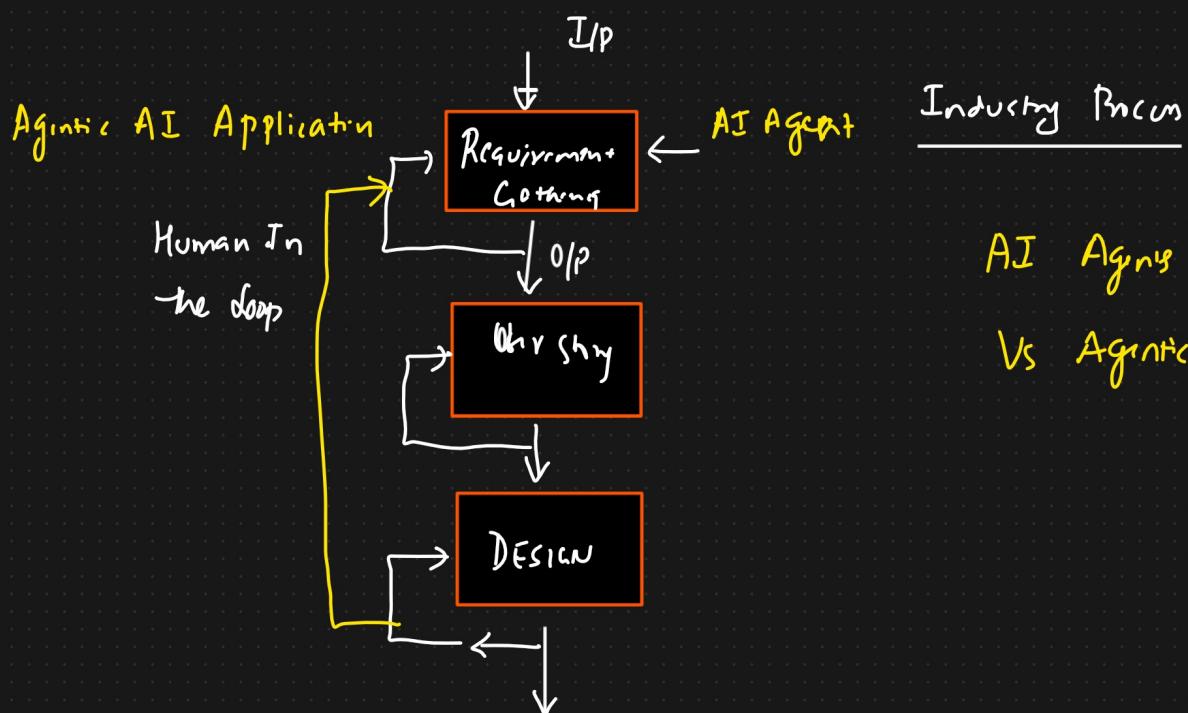
| HLM |

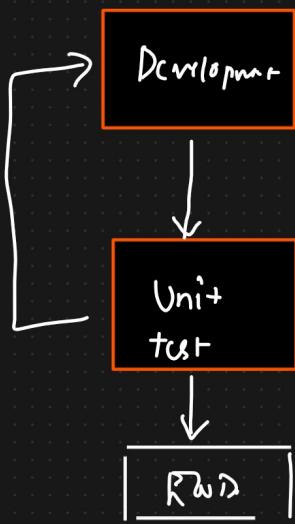
↑

Human Feedback

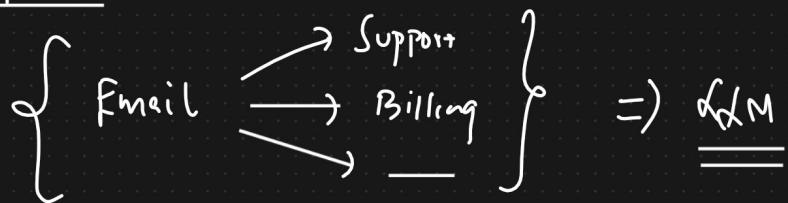
- 1) Requirement Gathering : Business Analyst, Product Manager
- 2) Documentation And User Story : BA
- 3) DESIGN ←
- 4) Development ←
- 5) Testing ←

## Workflows





### Automate Ticket Support



Mock Interview  $\div$  15 minutes  $\rightarrow$  B2B

