

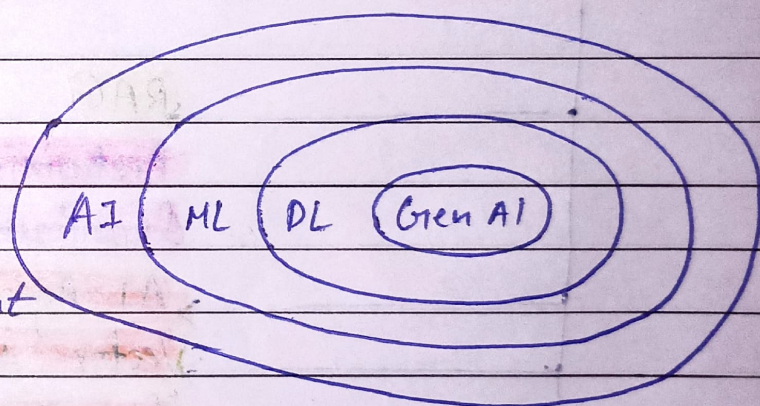
GENERATIVE AI

• What is GenAI??

→ GenAI is a Type of Artificial Intelligence that creates new content → such as Text, Images, music or code by learning patterns from existing data, mimicking human behaviour.

GenAI Impacts ↕

- Customer Support
- Education
- Software development
- Content Creation



Is GenAI successful?

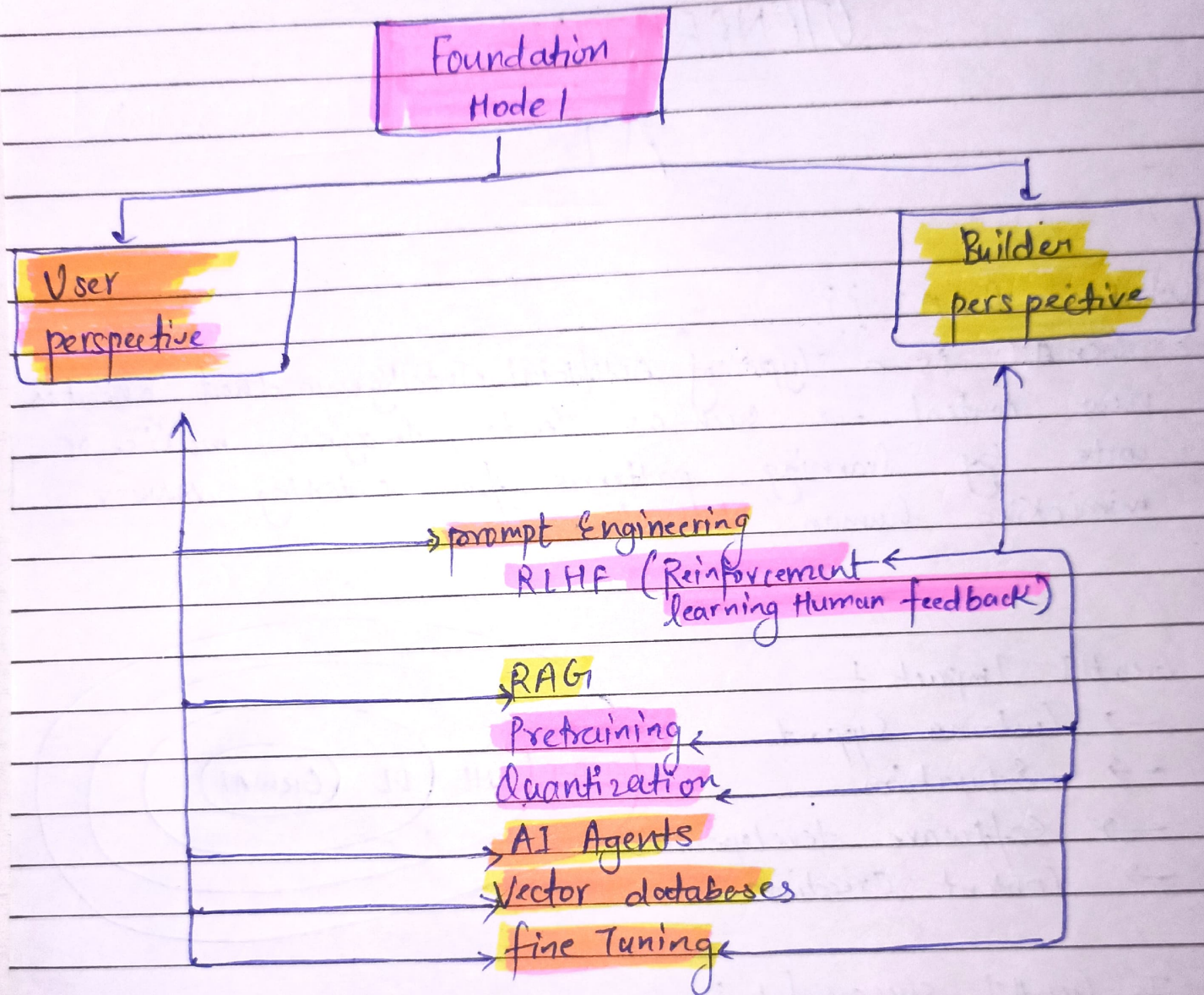
- Does it solve real world problem
- Is it useful on a daily basis
- Is it Impacting the world economics
- Is it creating new Jobs?
- is it accessible?

} → yes!!

The problem ↕

- very fast progress
- The FORMO Merchants
- No single Source to learn.

Solution \Rightarrow Mental Model



The builder's perspective :

	<u>Pretraining</u>	<u>fine Tuning</u>
Transformer Architecture	Training objectives Tokenization strategies Training strategies Handling challenges	Task specific Tuning Instruction Tuning Continual pretraining
<u>Types of Transformers</u>	<u>Optimization</u>	<u>Evaluation</u>
Encoder based (BERT)	Training optimization	
Decoder based (GPT)	Model compression	
Encoder & Decoder based (T5)	Optimizing Inference	<u>Deployment</u>

The User's perspective

Building Basic LLM Apps	prompt Engineering	Agents	
open source v/s closed Source LLMs	RAG		
Using LLM API'S	fine Tuning	LLM OPS	Miscellaneous
langchain Hugging face Ollama			

Do we need to learn both ??

