

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 ?

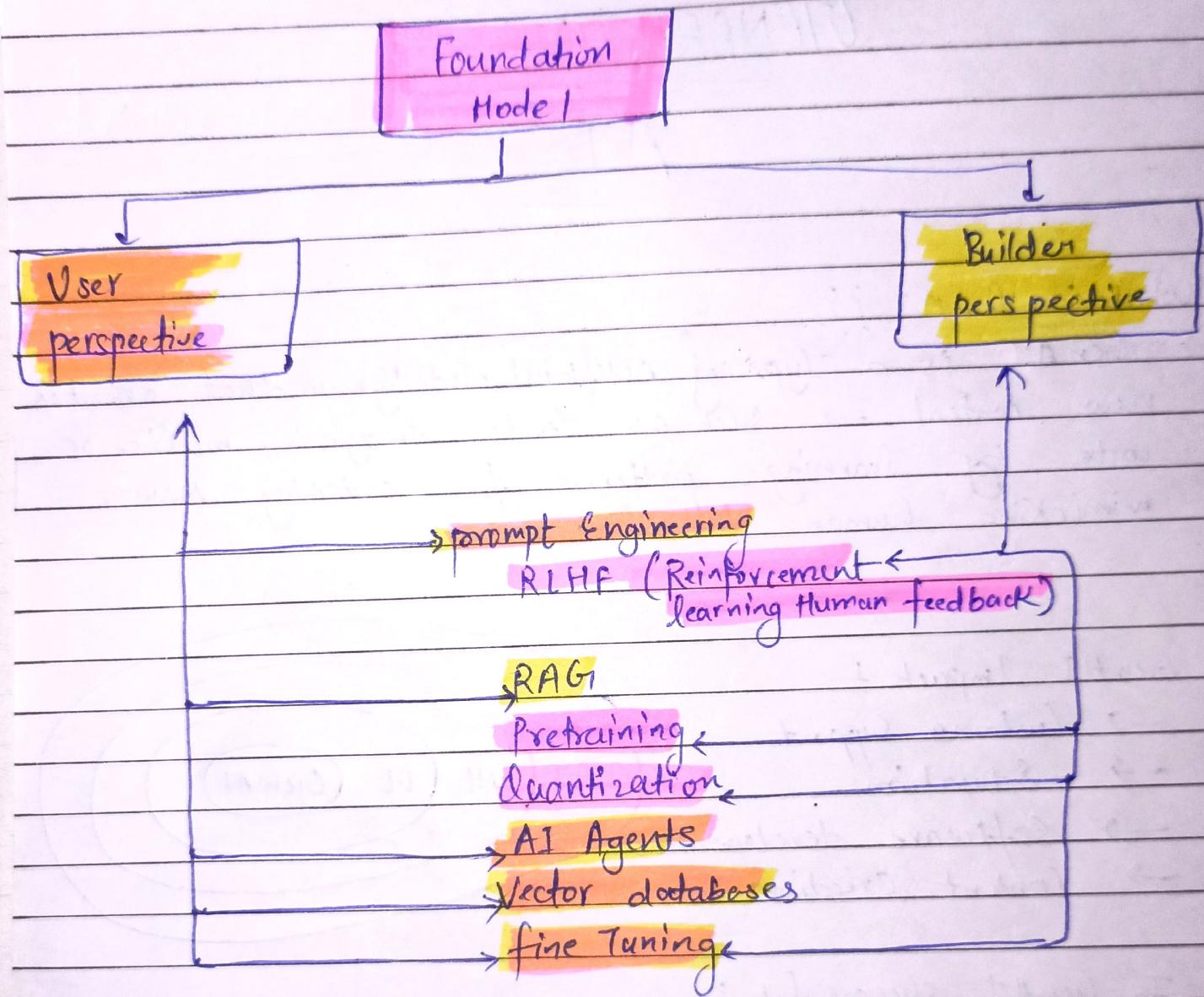
- Does it solve real world problem
- Is it useful on a daily basis
- Is it Impacting the world economics
- Is it creating new jobs ?
- Is it accessible ?

} yes !!

The problem :-

- very fast progress
- The FOMO Merchants
- No single source to learn.

Solution \Rightarrow Mental Model



The builder's perspective :

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

The User's perspective

Building Basic LLM Apps

open source v/s closed
Source LLMs

Using LLM API's
langchain

Hugging face
Ollama

prompt
Engineering

RAG

Fine
Tuning

Agents

LLM OPS

Miscellaneous

Do we need to learn both ??

