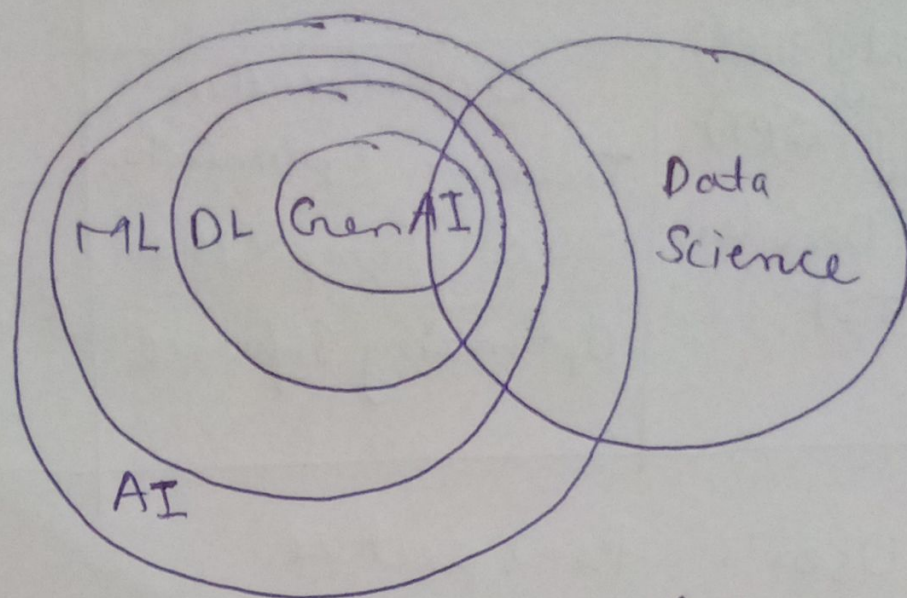


Generative AI (GenAI)

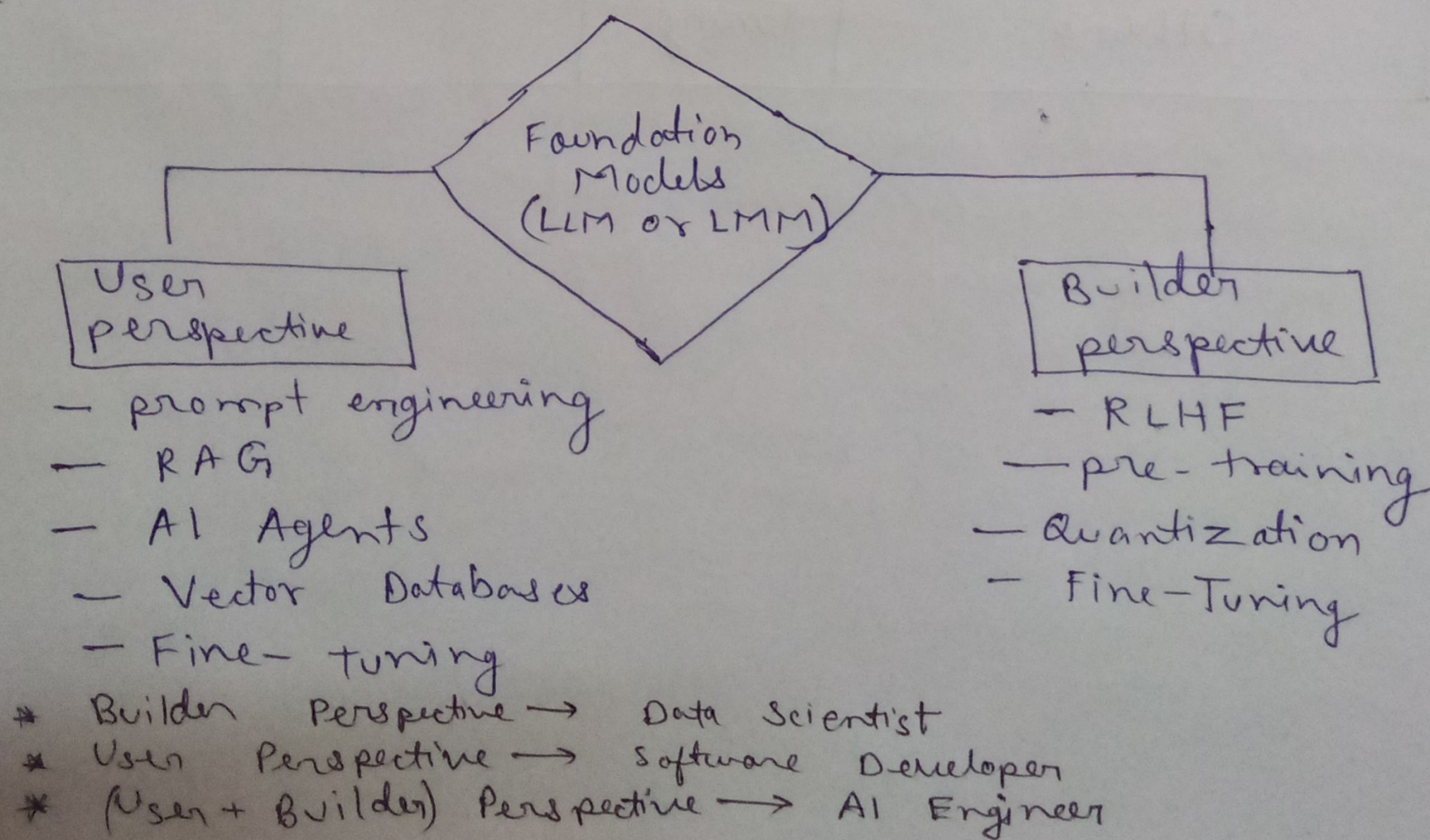
Generative AI is a type of AI that creates new content such as text, images, music, or code by learning patterns from existing data, mimicking human creativity.



How to check any tech is successful in future or not

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

Mental Model



1. The Builder's Perspective.

Transformer Architecture.	Pretraining Training objectives Tokenization strategies Training strategies Handling challenges	Fine-Tuning Task Specific tuning Instruction tuning Continual Pre-training RLHF PEFT	
Types of Transformer. Encoder only (BERT) Decoder only (GPT) Encoder & Decoder based (T5)		Evaluation	Deployment
	Optimization Training Optimization Model Compression Optimizing Inference		

(ii) The User's Perspective.

Building Basic LLM Apps open/closed source LLMs using LLM APIs LangChain HuggingFace Ollama	Prompt Engineering	Agents	
	RAG	LLMOps	Miscellaneous
	Fine Tuning		