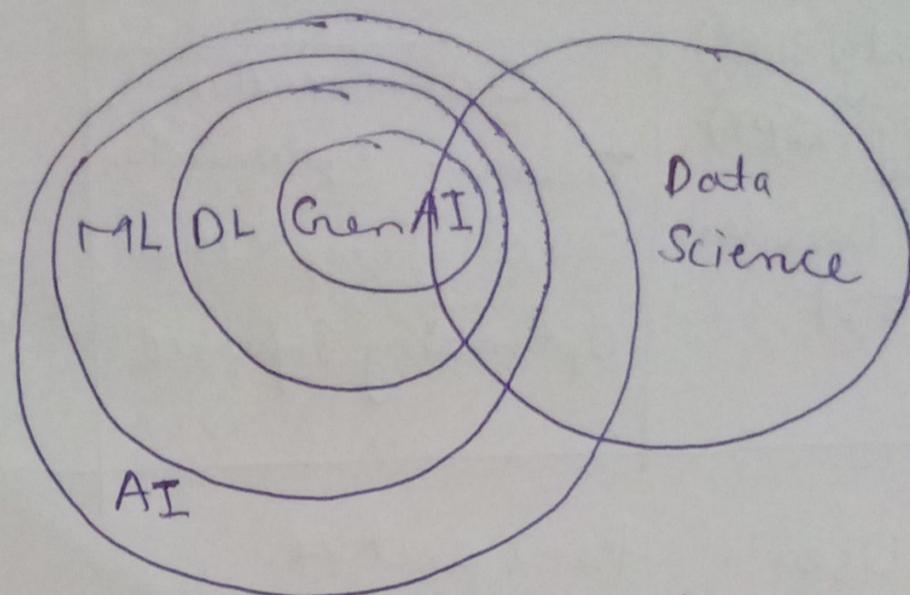


Generative AI (GenAI)

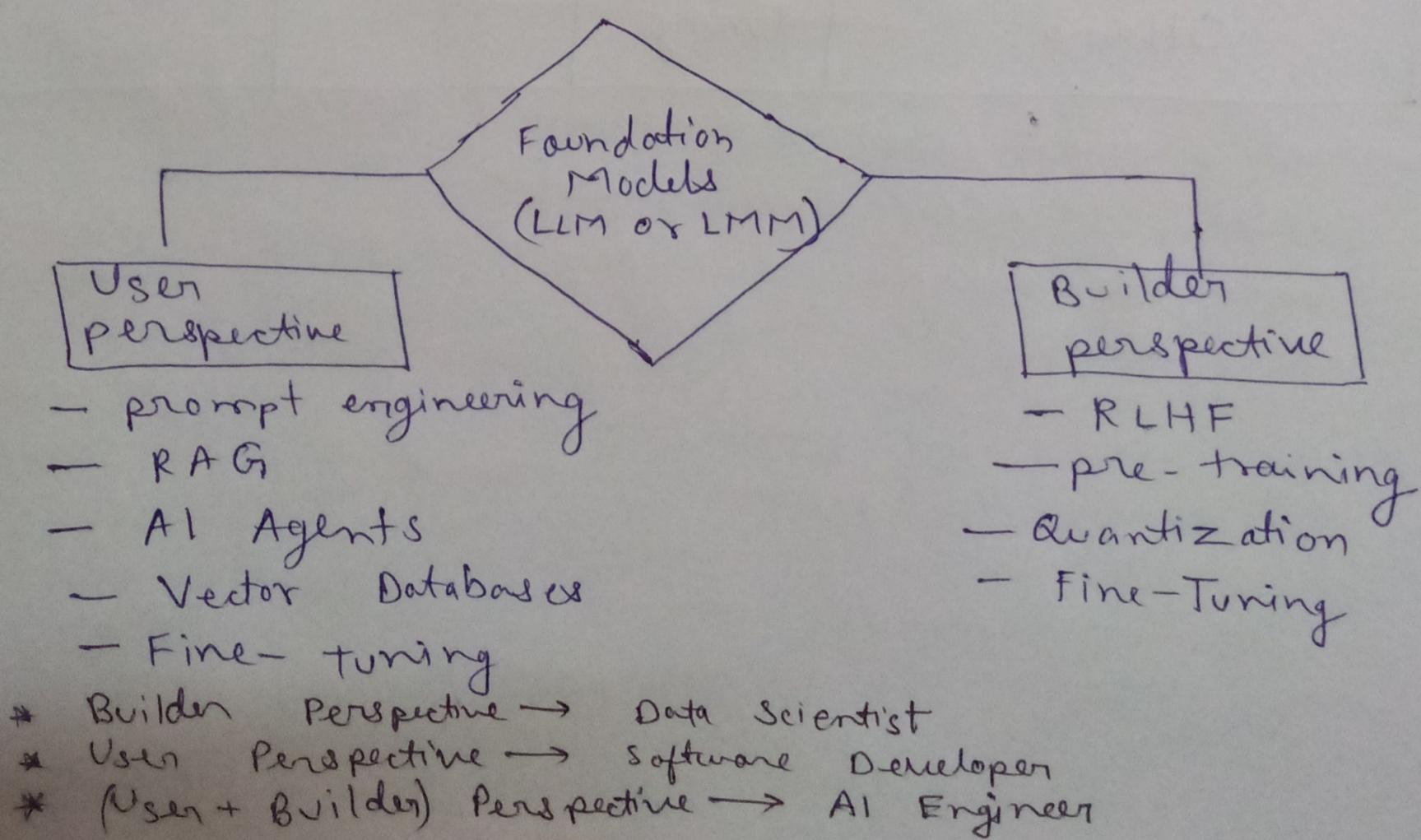
Generative AI is a type of AI that creates new content such as text, images, music, or code by learning patterns from existing data, mimicking human creativity



How to check any tech is successfull in future or not

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

Mental Model



I. The Builder's Perspective

Transformer Architecture	Retraining 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)	Optimization Training Optimization Model Compression Optimizing Inference	Evaluation Deployment

(ii) The User's Perspective

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