1. LLM → NLP

Predicts the next (token) → word
→ Subword

probabilistic

deeplearning → absence of state

RNN

LSTM

I was born in France

My mother tongue is ○ → French

2017 Ashish Vaswani

Attention is all that you need

TRANSFORMERS

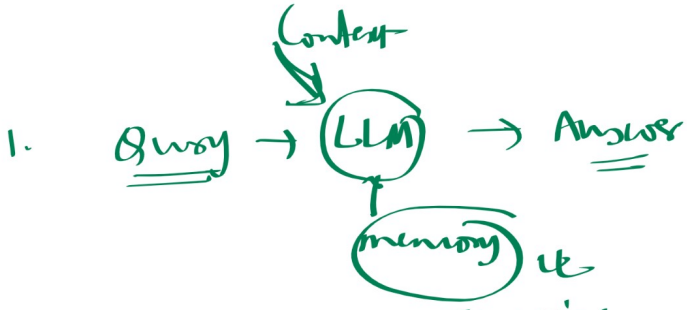
The dog chased the ball and (it) bounced

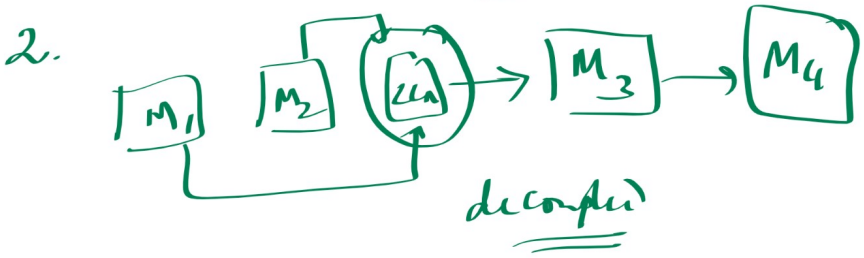
GPT

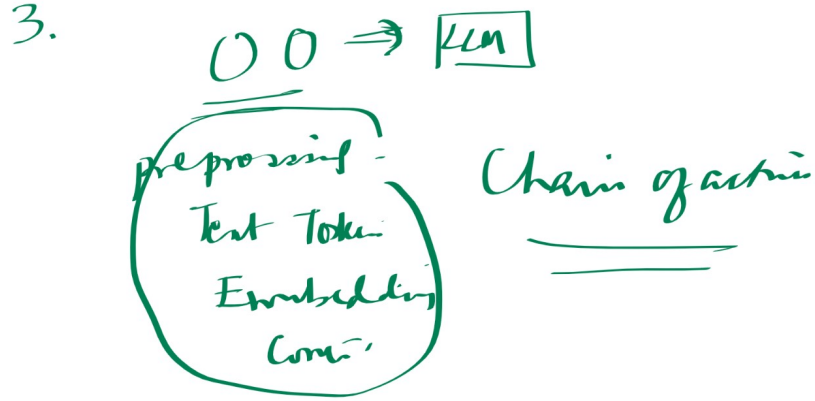
LLM → foundational model

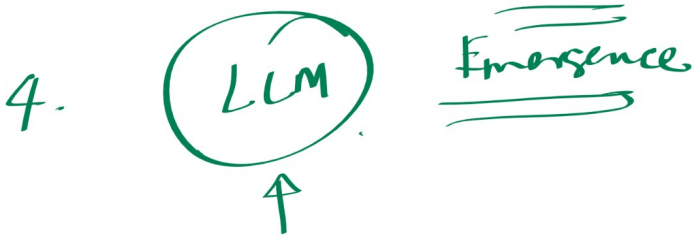
Maximum likelihood.

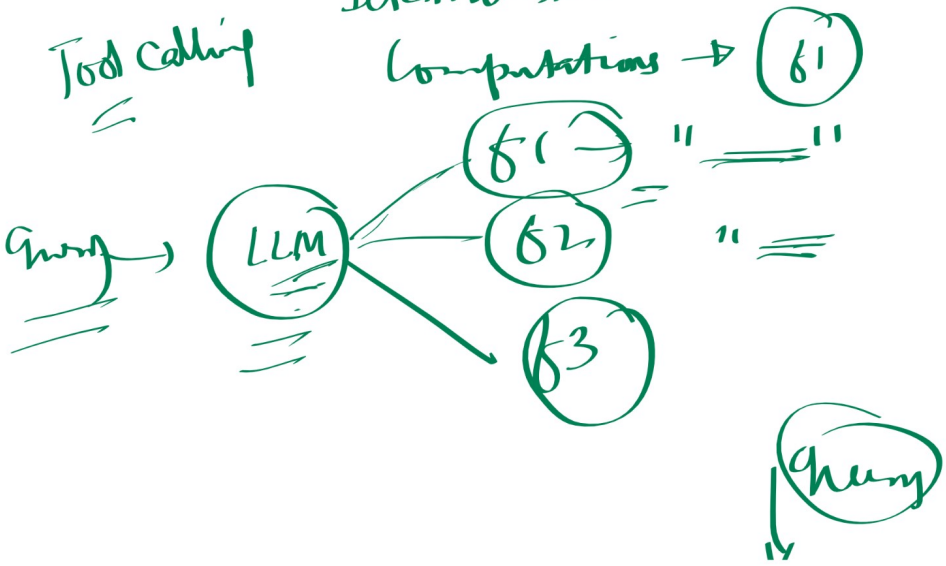
Badanau Attention + LSTM → Ashish → Attention is all you need



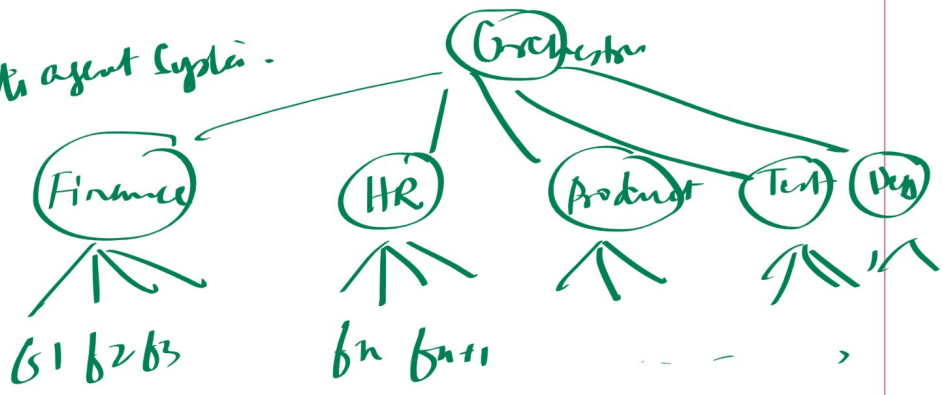








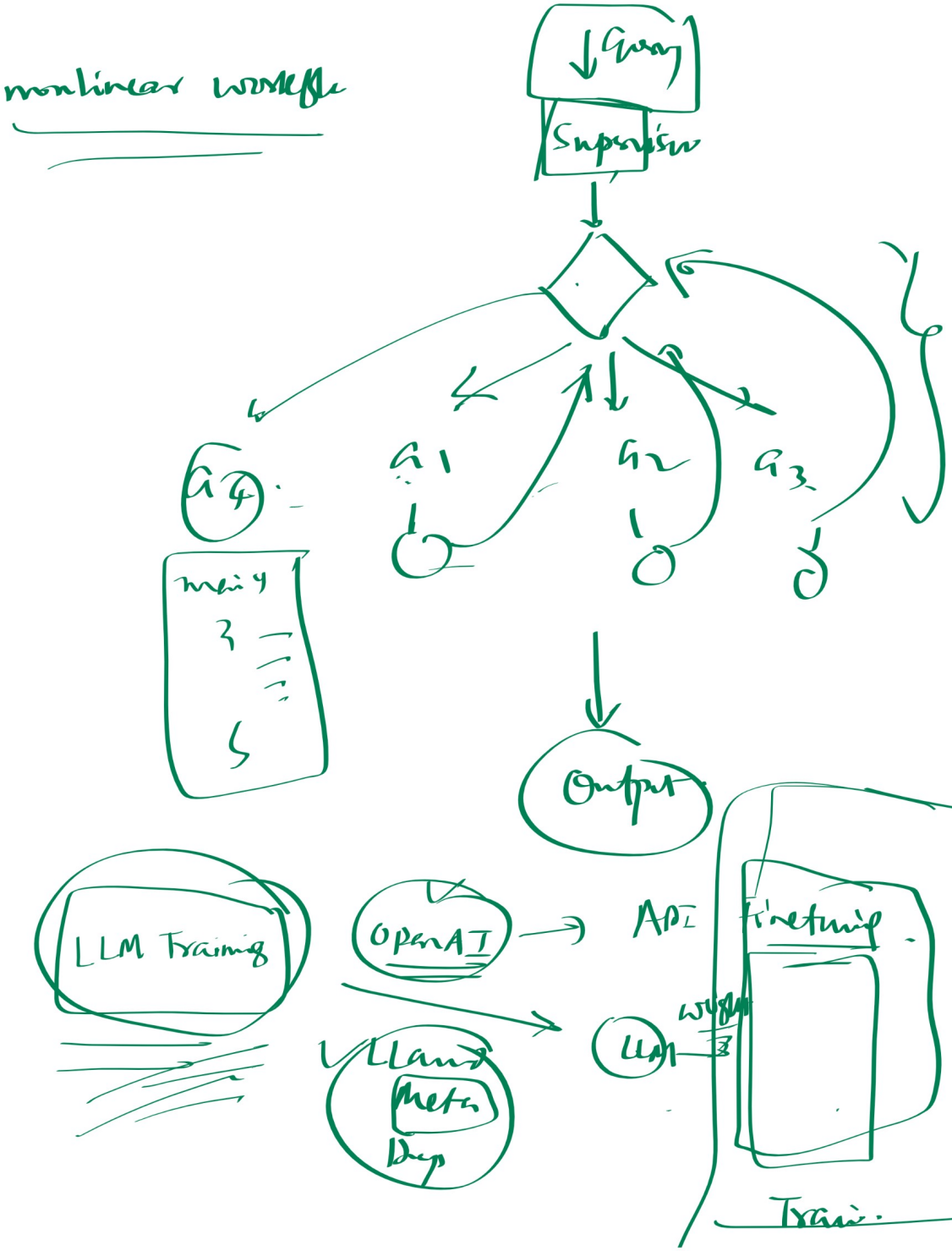
(5) Multi agent system.

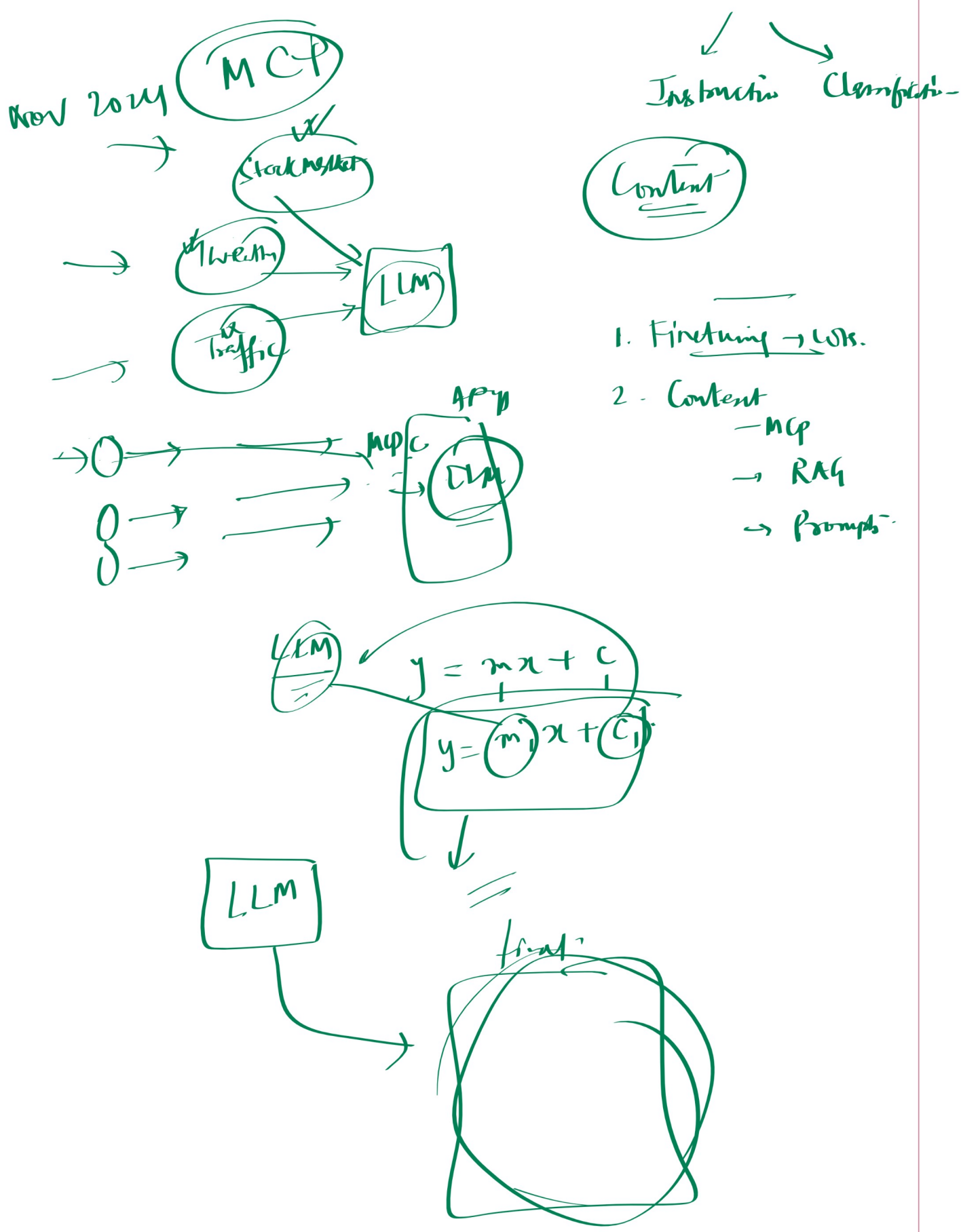


→

query → PP → add cont → LLM → ans

nonlinear workflow





Nov 2024

MCP

Stock market

Weather

Traffic

LLM

Instruction

Classification

Content

1. Finetuning → Lots.
2. Content
   - MCP
   - → RAG
   - → Prompts.

MCP

APP

LLM

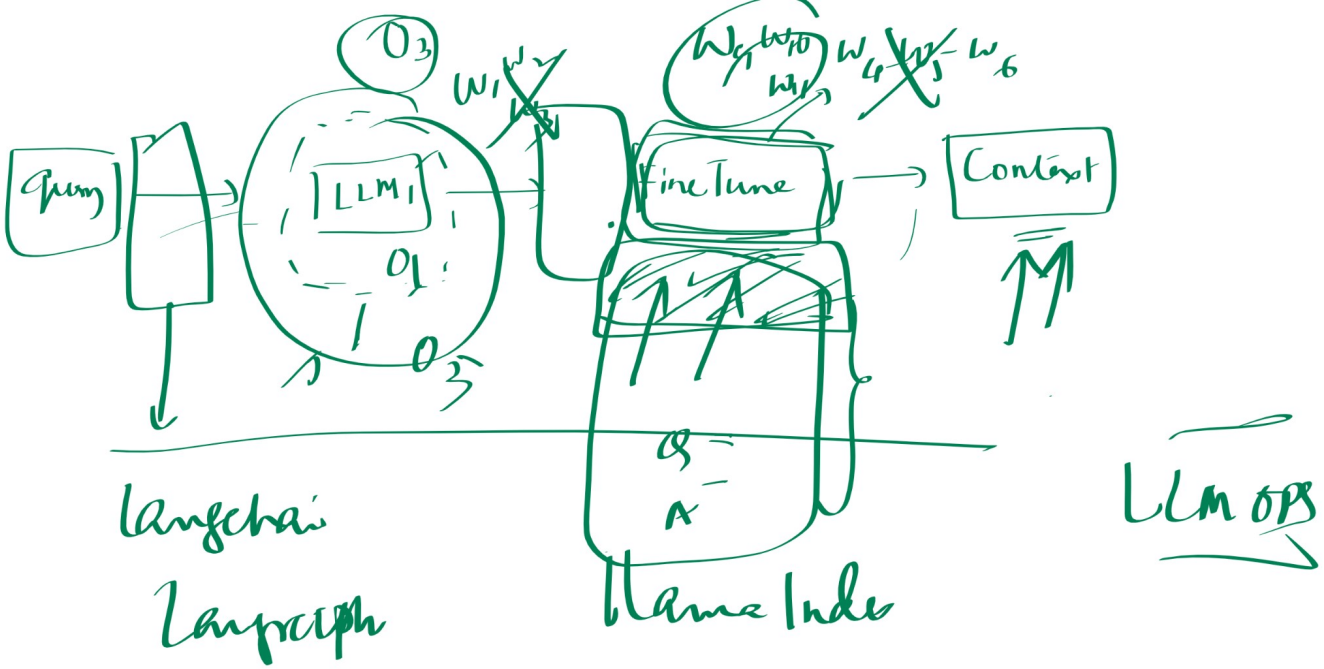
LLM

$y = mx + c$

$y = m_1 x + c_1$

LLM

final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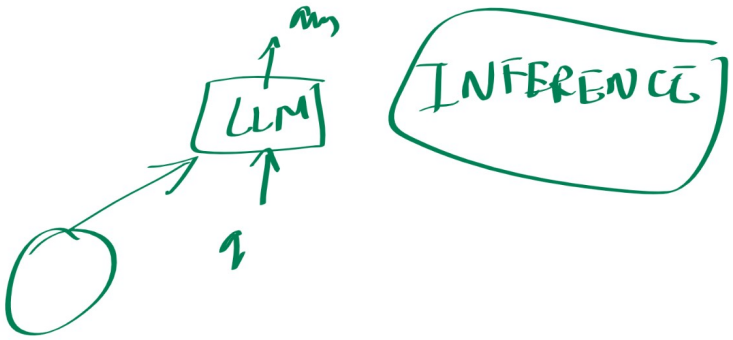
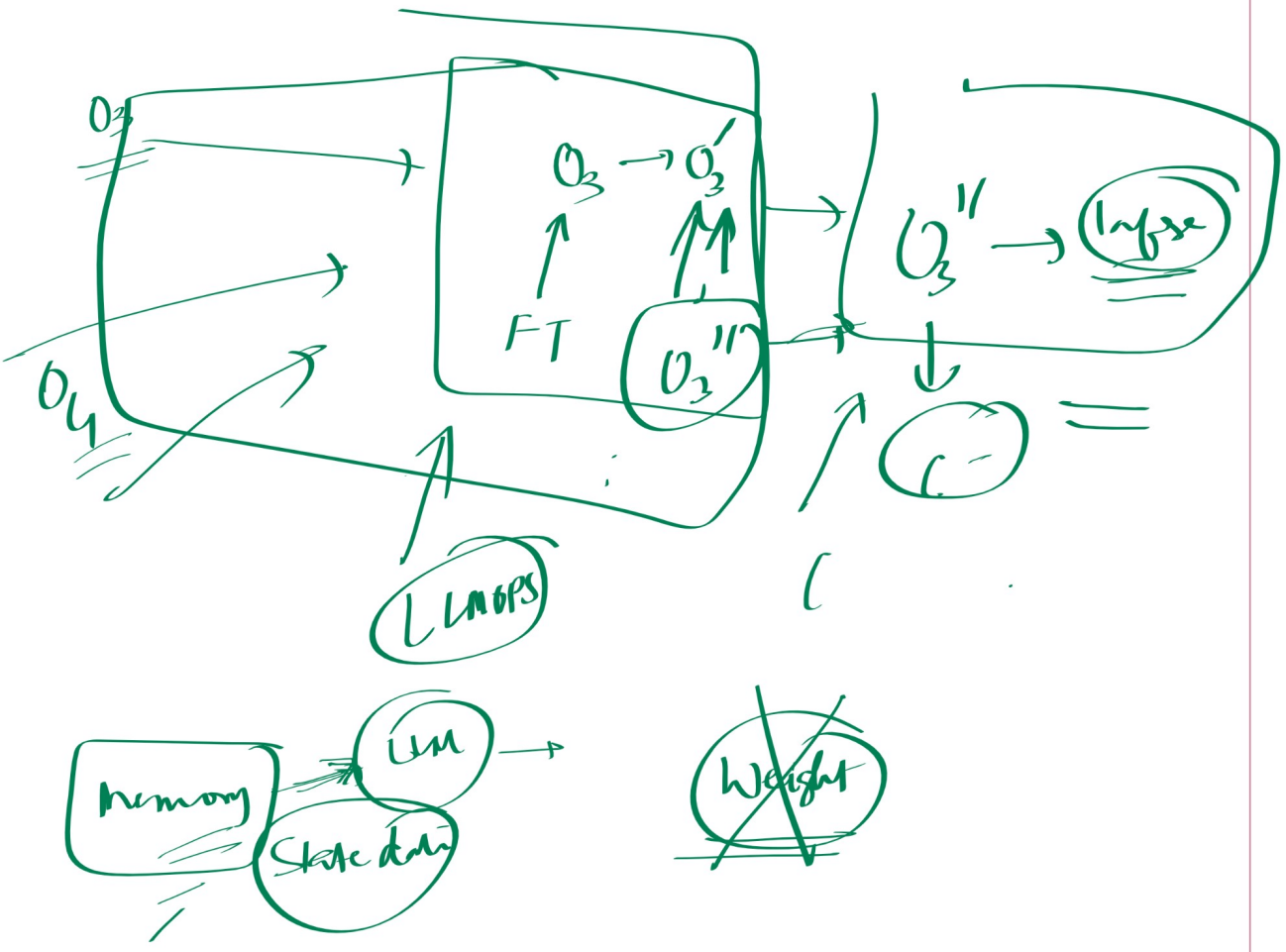
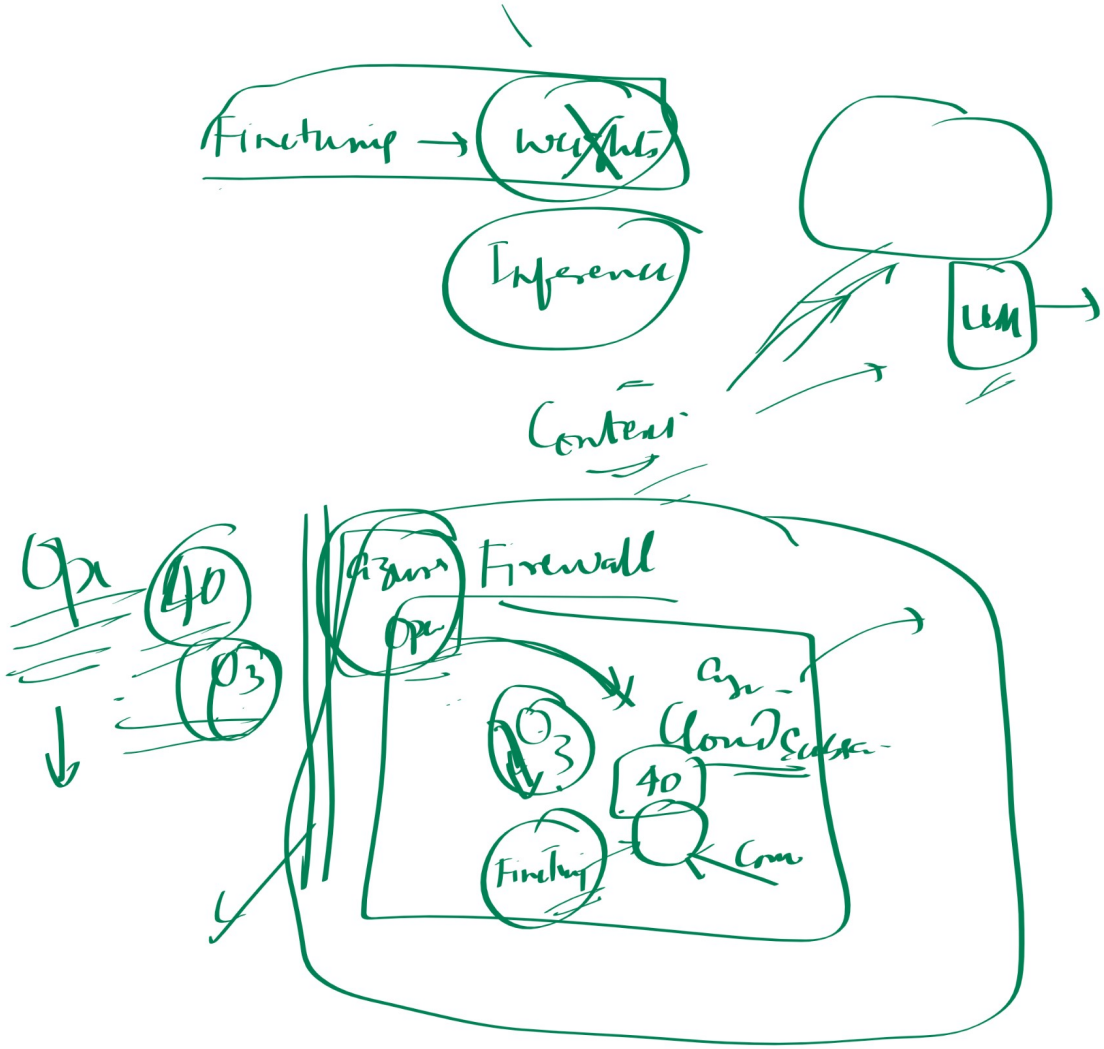
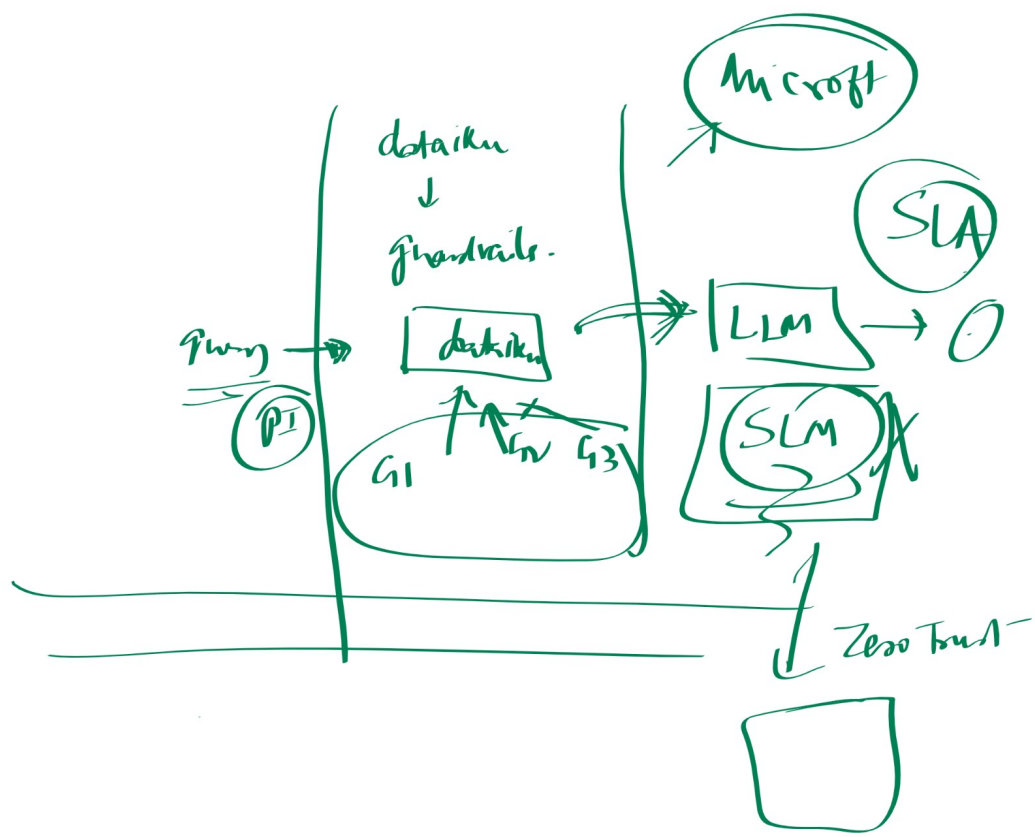
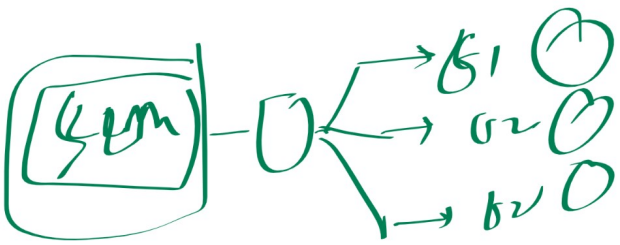
LLM
Fine Tune
Context
Langchain
Langraph
Llama Index
LLM OPS


LLM
INFERENCE


FT
LLMOPS
Memory
LLM
State data
Weight


Finetuning
weights
Inference
LLM
Context
Opx
40
O3
Firewall
Opx
O3
40
Finetuning


Microft
dataiku
guardrails
SLA
LLM
dataiku
PI
G1
G2
G3
SLM
Zero Trust


System
b1
b2
bn