

Introduction to RAG!-

Large language Models (LLM) follows Transformer architecture. These are Deep learning models.

LLM \rightarrow Deep Learning Models
(Transformers)
Ex: BERT, T5, BART

\downarrow
weights + biases

GPT - Decoder
BERT - Encoder

Note :

NLP terms

upstream: Anything
pretraining

Ex: Masking

Downstream : Anything we do post training

Sub-

fine tuning Text
classification, pos,
NER, Summarization,
QA, MT

& Texts Generation

We do have some problems with
the LLM (or) even Small Language
Models (SLM)

Base Model (or) Foundational
Model

↓

(doesn't have your
organization

+

← data)

{Custom Data}



Fine Tuning Task (Expensive Task)

① Knowledge cutoff

↳ Cutoff Training ↓
Date

LLM would have some cut off
in Training data i.e not upto date In
that context LLM tend to give
wrong Ans (Hallucinate)

② Lack of Info in Domain
specific Tasks

③ Lack of Private Data

④ Loses Trusted Source