

Summer Training TR-103

Prompt Engineering

Day-3 Report

LLM (Large Language Model):

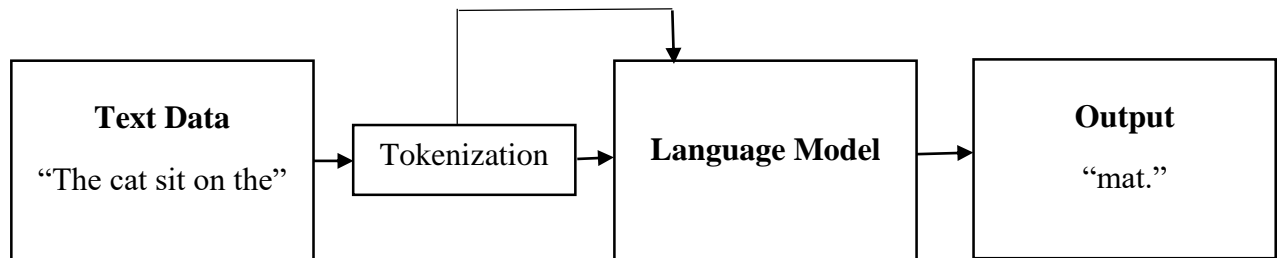
LLM (Large Language Model) is a system used for generating human like text. LLM is used by various well known AI models like ChatGPT, Gemini, Claude and many more. LLM is the basic concept for generating text from AI.

Key Terms of LLM:

- **Token:** Token is the smallest unit of any text.
- **Parameter:** Parameter is like a brain cell.
- **Prompt:** Prompt is the input question.
- **Fine-Tuning:** Fine-Tuning means customizing a model on specific data.
- **Inference:** Inference is model's response or output.

Transformers:

Transformers are deep learning model used for language tasks. It helps computer to understand and generate human language. It reads the whole sentence at once and figure out which words are important and how they relate to each other. They work by reading all words in a sentence at once (not one by one) and deciding which words are most important to understand the meaning. They use something called self-attention to focus on the right words, just like we pay attention to key parts when reading.



Working of Transformer

Limitation of LLM (Large Language Model):

- Hallucinations: It may generate false information.
- Bias: It can reflect biases in its training data.
- No real understanding: It has no real understanding as it doesn't think.
- Context Length: It has limited memory.