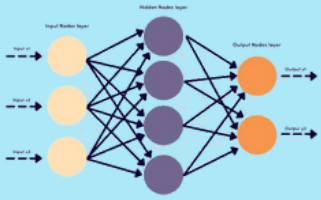
LARGE LEARNING MODEL

Introduction

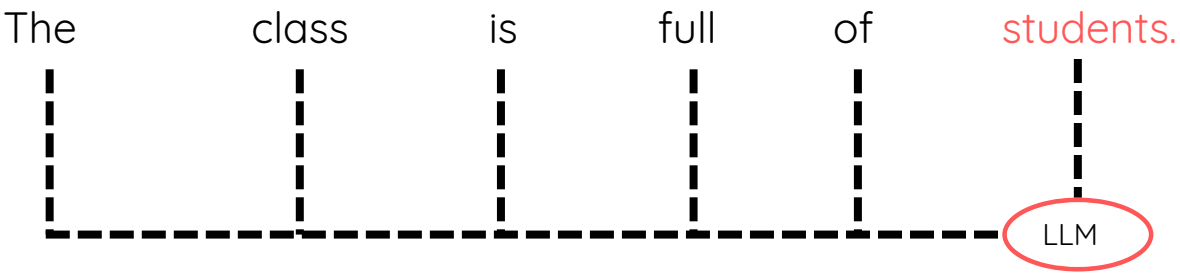


WHAT IS LLM?

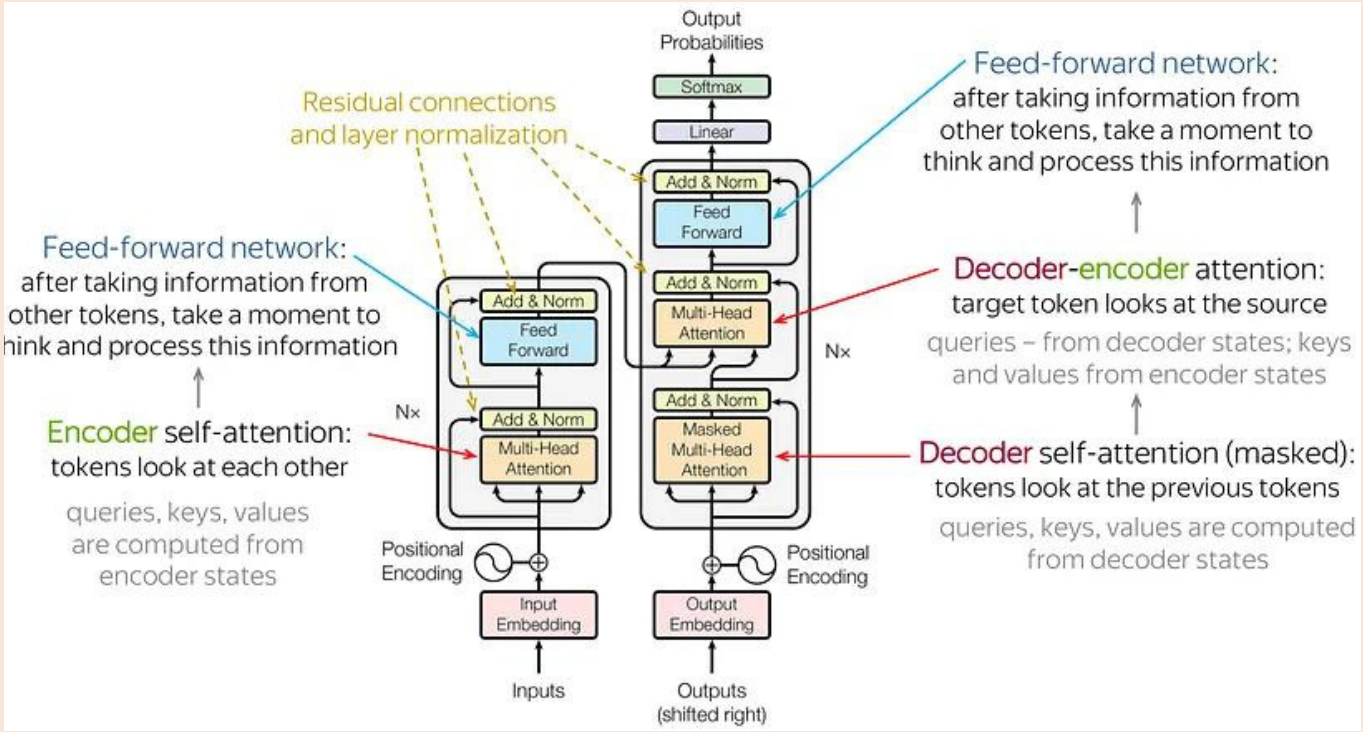
A large Language model is a trained deep learning model that understands and generate text in a human like fashion.

LLMs are good at Understanding and generating human language

HOW DO WE USE LLM?



LLM ARCHITECTURE



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Why we call it Large Language Model?

- Because of size and complexity of the Neural Network
- Trained on huge dataset

What makes LLM so powerful?

- One model can be used for various tasks like text generation, chatbot, summarizer, translation, code generation, etc.

What is the primary objective of LLMs (Large Language Models)?

- LLMs aim to process and generate human-like text, enabling them to perform various natural language tasks like translation, question answering, and text generation.

LLMs Model Architecture

- Large Language models are based on transformer a type of Neural Network Architecture invented by Google.

Application

- Text generation
- Machine translation
- Chatbots
- Summarization
- Question answering
- Code generation
- Content creation

Challenges

- Bias: Inheriting and amplifying biases from training data.
- Limited reasoning
- High computational cost
- Ethical concerns: Potential for misuse in generating harmful content.

FEW MILESTONE IN LARGE LANGUAGE MODEL

BERT	**Bidirectional Encoder Representations from Transformers (BERT) was developed by Google**
GPT	GPT stands for "Generative Pre-trained Transformer".The model was developed by OpenAI
XLM	Cross-lingual Language Model Pretraining by Guillaume Lample, Alexis Conneau.
T5	The Text-to-Text Transfer Transformer It was created by Google AI
Megatron	Megatron is a large, powerful transformer developed by the Applied Deep Learning Research team at NVIDIA

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