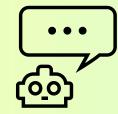
LLM Lingo: Must-Know Terms

Part 2: Fine-Tuning Edition

Created By: Aishwarya Naresh Reganti

In-Context Learning



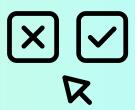
Integrating task examples into prompts, enabling LLMs to handle new tasks without fine-tuning.

SFT



Supervised Fine-Tuning.
Updating a pre-trained
LLM with labeled data to
perform a specific task.

Contrastive Learning



Fine-tuning method that improves LLM by teaching it to discern data similarity and differences.

Transfer Learning



Applying pre-trained knowledge from large datasets to improve LLM performance on smaller, task specific data.

Reward Modeling



Designing objectives to reward LLM outputs during the reinforcement learning process.

Reinforcement Learning



Training LLMs through trial and error, with rewards/penalties based on its generated outputs

RLHF



Reinforcement Learning from Human Feedback.
Human feedback is used as reward/penalty for LLM

PEFT



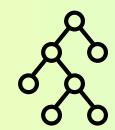
Parameter-Efficient Fine-Tuning updates only few parameters of LLMs and is hence both compute and cost efficient.

Quantization

100110

Reducing the precision of LLM parameters to save computational resources without sacrificing performance.

Pruning



Trimming surplus
connections or parameters
to make LLMs smaller and
faster yet performant

LoRA



Low-Rank Adaption is a PEFT method that inserts a smaller set of new weights to the LLM & trains only those.

Freeze Tuning



Fine-tune with most of the LLM's weights frozen, except for some layers, generally, the task specific layers