

# An example on how to fine-tune a LLM with few computational resources

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# Structure

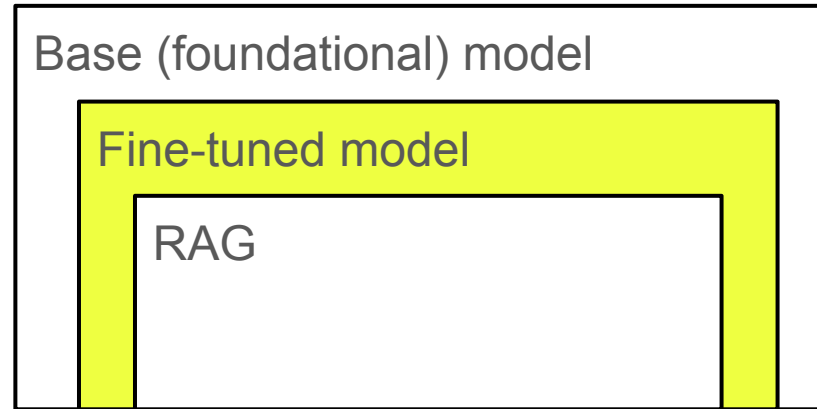
Intro

Fine-tune LLM with PEFT

Fine-tune LLM with unsloth/FastLanguageModel

Q&A

# Intro - Typical LLM application



# Intro - LORA

- **Efficiency:** It allows for the efficient adaptation of large models to new tasks with minimal additional computational cost.
- **Effectiveness:** Despite the reduced number of trainable parameters, LoRA can achieve competitive performance on various tasks, comparable to full model fine-tuning.
- **Flexibility:** It offers a flexible way to update models, as the low-rank parameters can be easily adjusted for different tasks or data without altering the core model architecture.

Q&A