You're reading a paper that refers to an "LM-adapted T5." What does this mean?

has an embedding layer that is trainable A model is built by adding an adaptor to T5 in order to make it better at some specific task.

T5 base model modified using adapters for Language modeling

language model loaded from T5 checkpoint?

some method to finetune the t5 model for a specific language task it's customized for a specific task.

Some kind of Language Model (LM) and (T)ransformer It means it uses a unified transformer architecture (encoder & decoder)



You're reading a paper that refers to an "LM-adapted T5." What does this mean?

fine tuned T5 model for generating texts



T5 was pre-trained with a mask-infilling objective. It never saw targets that were full complete sentences. But, we can "adapt" it to language generation by doing fruther training to predict a sequence suffix given a prefix.



What are some reasons why a RAG system might perform worse at responding to a query than an LM system without retrieval?

incorrect data in db

retrieval errors, irrelevant documents, or misalignment the RAG was trained on a different domain

the retrieved documents are noisy or contain more information than needed

Retrieved documents have misleading information

Rag may provide context that is not relevant that confuses the model

out of domain query for the particular retrieval domain When the context is distracting.







What are some reasons why a RAG system might perform worse at responding to a query than an LM system without retrieval?

The retrieved data can be irrelevant or distracting.

If the retriever sucks or gives useless retreiving

The retrieved information can contain incorrect/irrelevant info, which introduces noise

outdated data in database

The answer of some responses could be wrongly

retrieving irrelevant data

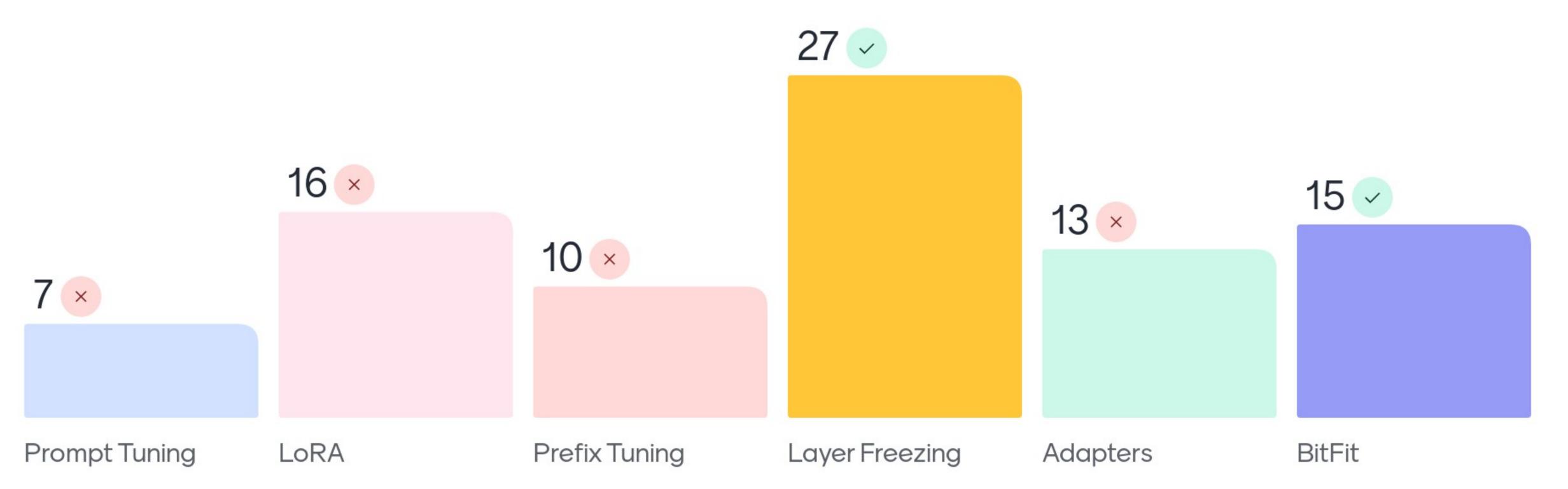
Getting the incorrect/misleading/out dated data from database.

When retrieval isnt really required





What of the following param-efficient finetuning methods involve picking a small subset of the weights and just tuning those?







it depends 1-5 Few a few (3-5) 5 few - 1,2? Th minimum number that 1 to 3 allows good performance





Whatever amount gets the best results:)

>=2

2-5

any amount that can fit into context length

1-3

1 or 2, no more than 3

more than one

5





2-5 More than 1, but not too anything more than 1 3 - 5 examples many 3-4 Up to 5 5-6 Few





depends on your budget, the context window size, the size of examples, ...

it depends



