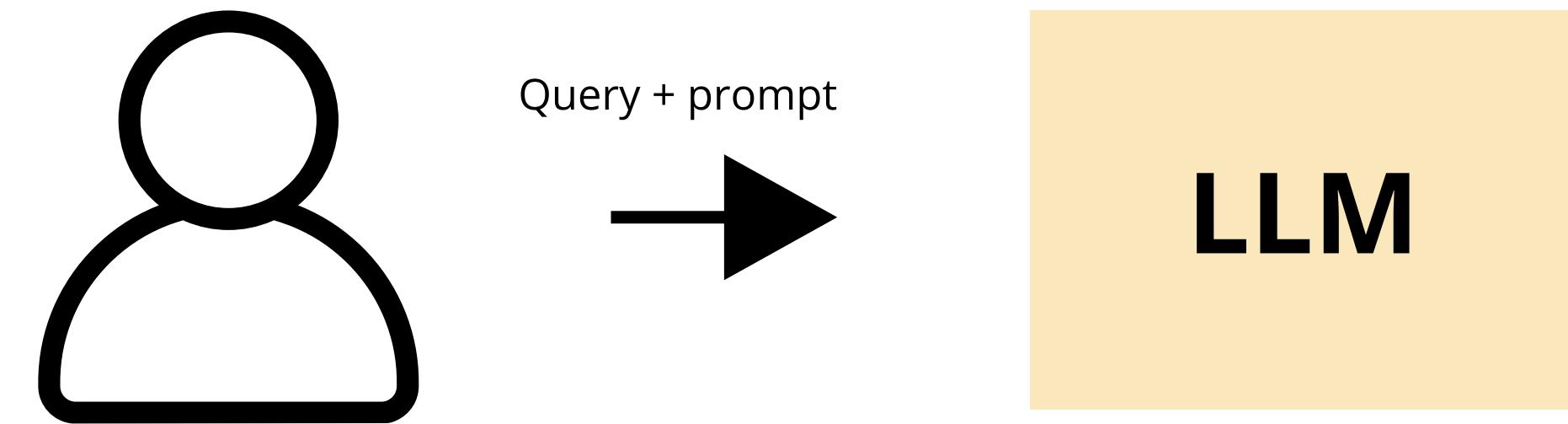


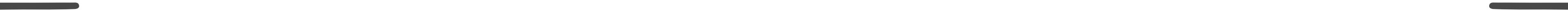
RAG: RETRIVAL AUGMENTED GENERATION

QUESTION:

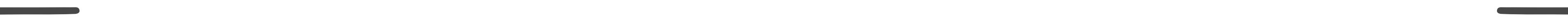
if you want to teach an LLM your
domain-specific knowledge

SIMPLE LLM APPLICATION





PROBLEMS W SIMPLE APPROACH?



PROBLEMS W SIMPLE APPROACH?

HALLUCINATION



FINE-TUNING?

FINE-TUNING?

Expensive — training cost + time

Data-hungry — needs thousands of high-quality
labeled examples

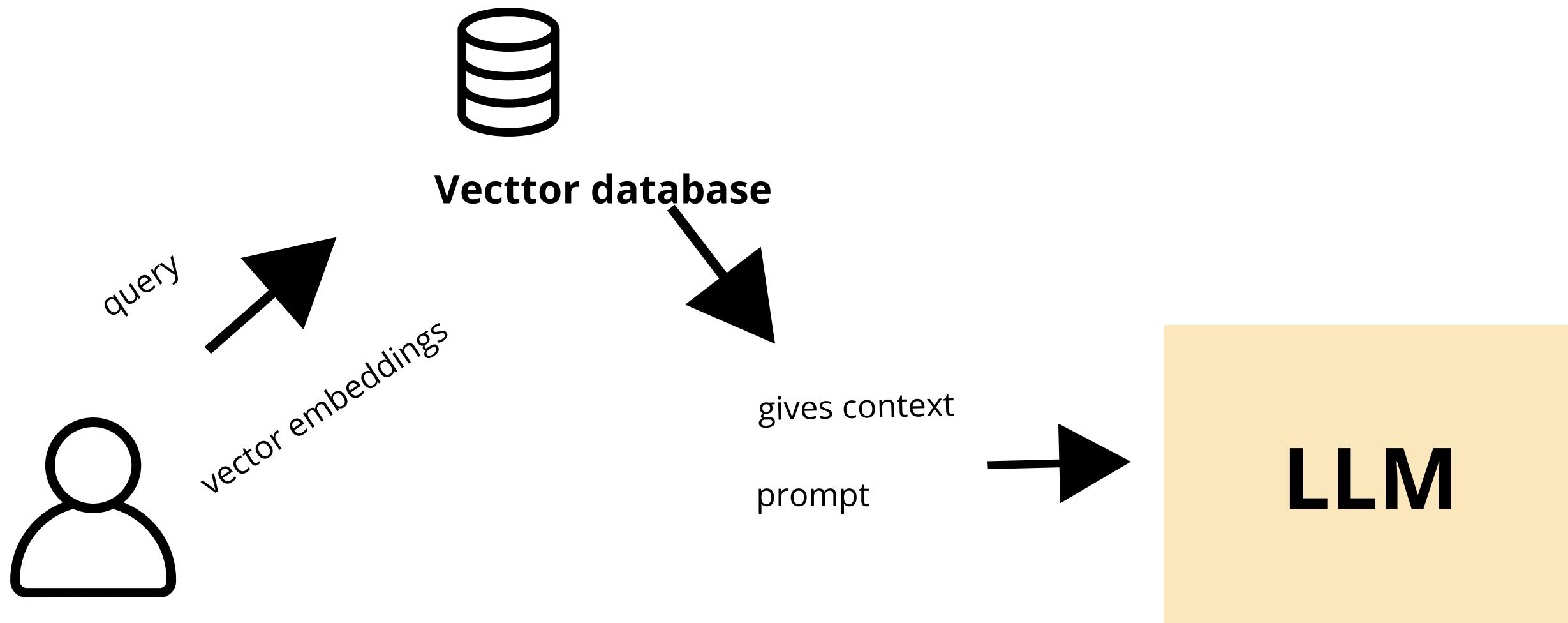
Static — can't update facts easily (model must be
retrained)

Output fusion — mixing multiple sources →
model guesses

RAG

- The model doesn't try to remember everything
 - Instead, it searches your knowledge base during inference
-
- “open-book exam” instead of “memorize the whole book”

RAG PIPELINE



RAG PIPELINE

