

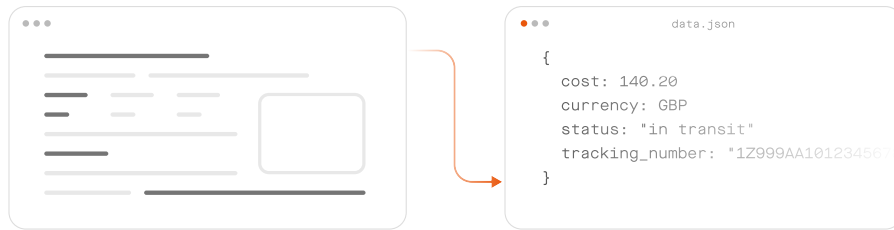
# What Are LLM's Useful For?

Forget the hype. Here are the boring, enterprise use cases that are actually raking in the cash.

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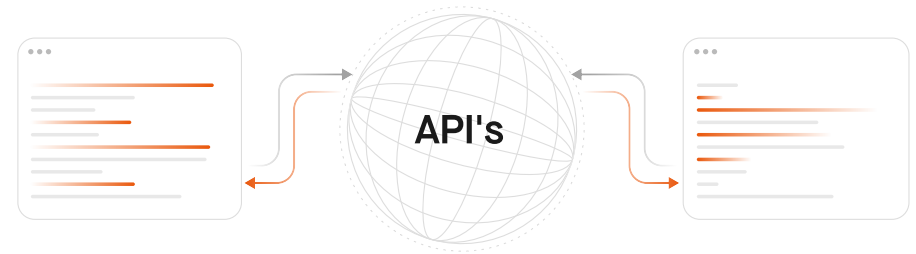
## Structuring Data

Take raw text, images, files, and ingest it into databases.



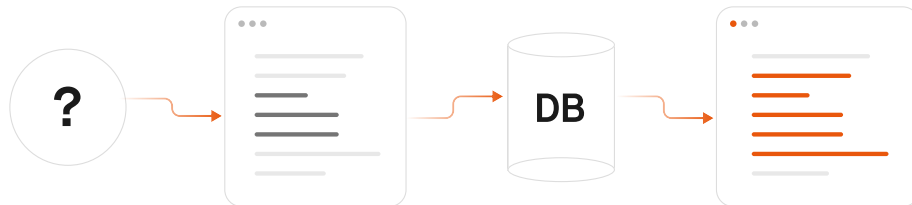
## Agents

Allow an LLM to do things in the world via external API's.



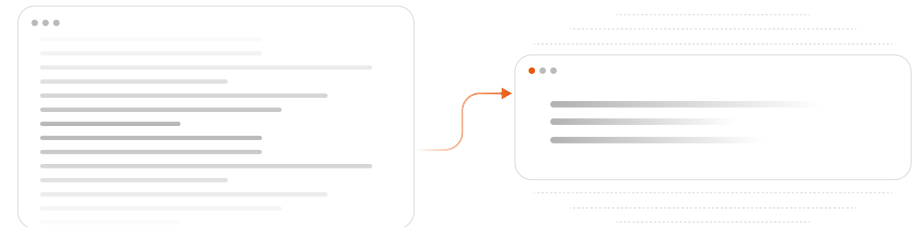
## Question Answering

Attach LLM's to external data sources to let them answer questions for users.



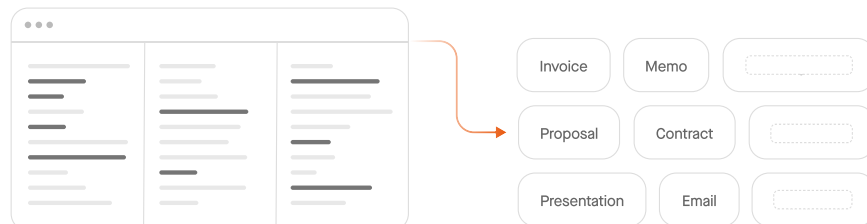
## Summarization

Take longer text and turn it into shorter text. That's it.



## Classification & Labelling

Apply meaningful tags to files to make them more searchable. Cheaply categorise things.



## Translation

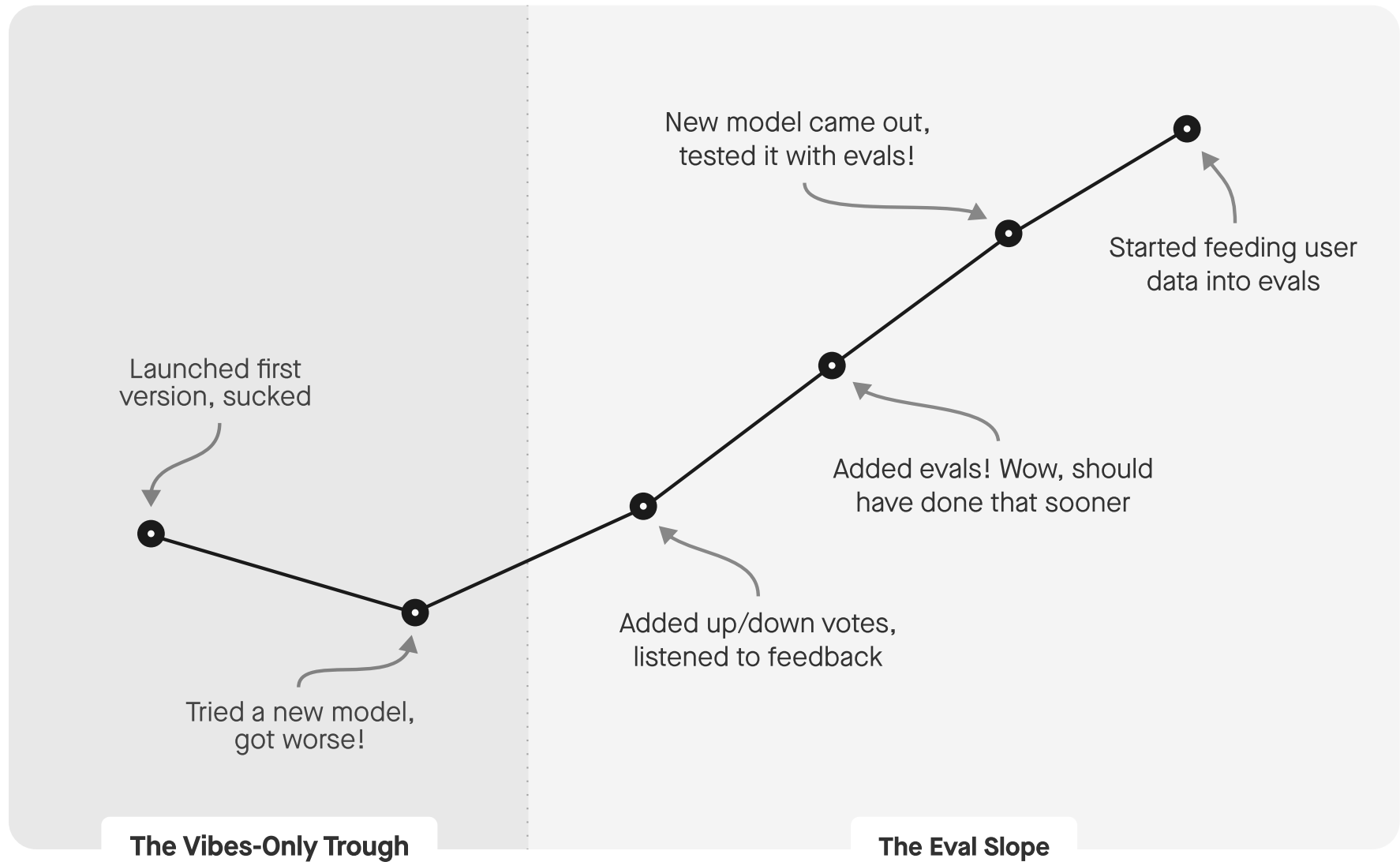
LLM's are multi-lingual by design, so translation is simple.



# How Good AI Apps Get Built

The first version of every AI app sucks. Only user feedback and great evals can improve it.

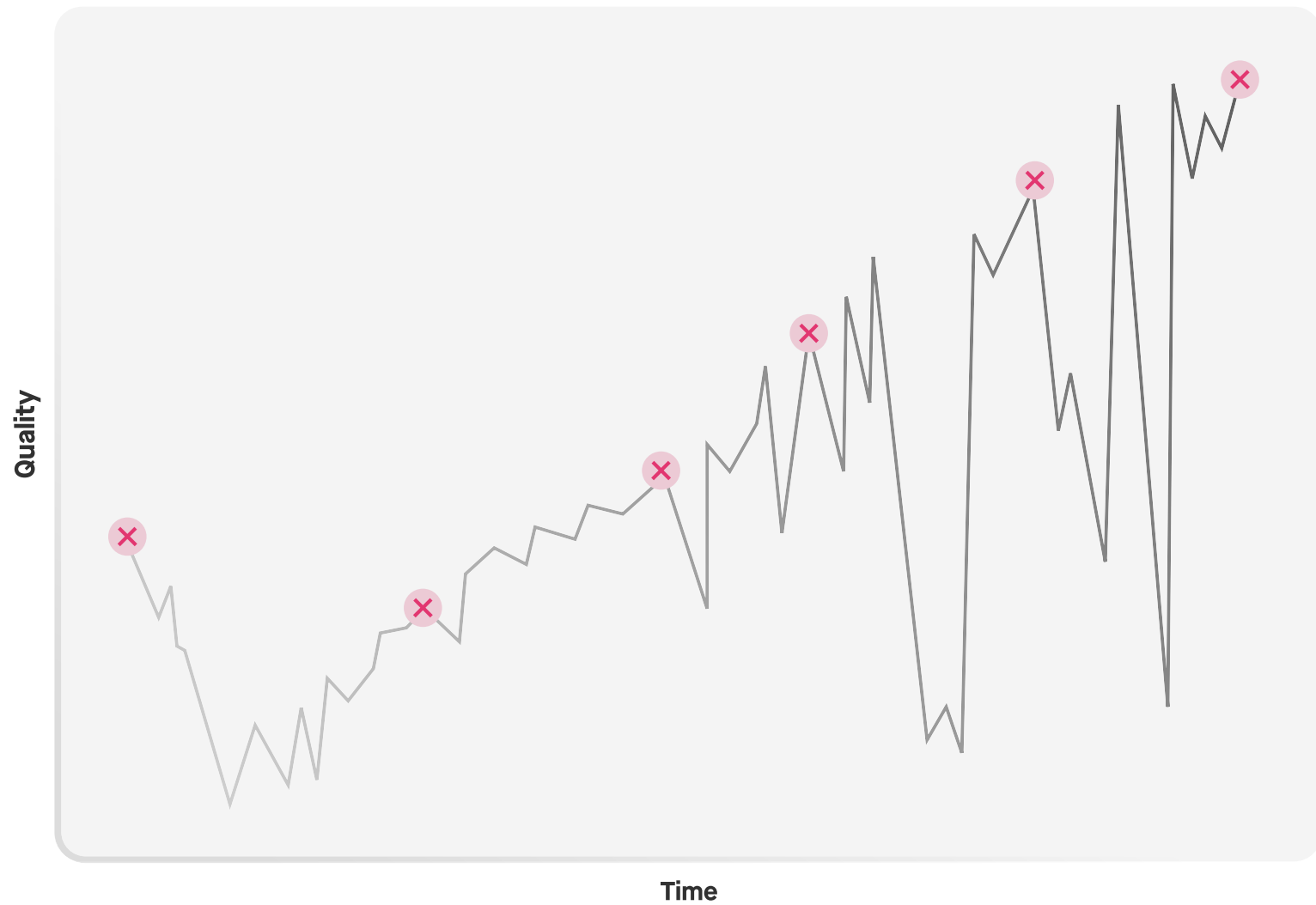
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# AI Engineering Is Experimental

LLM's are probabilistic, so AI Engineers need to experiment often with new techniques. Those experiments mostly won't work.

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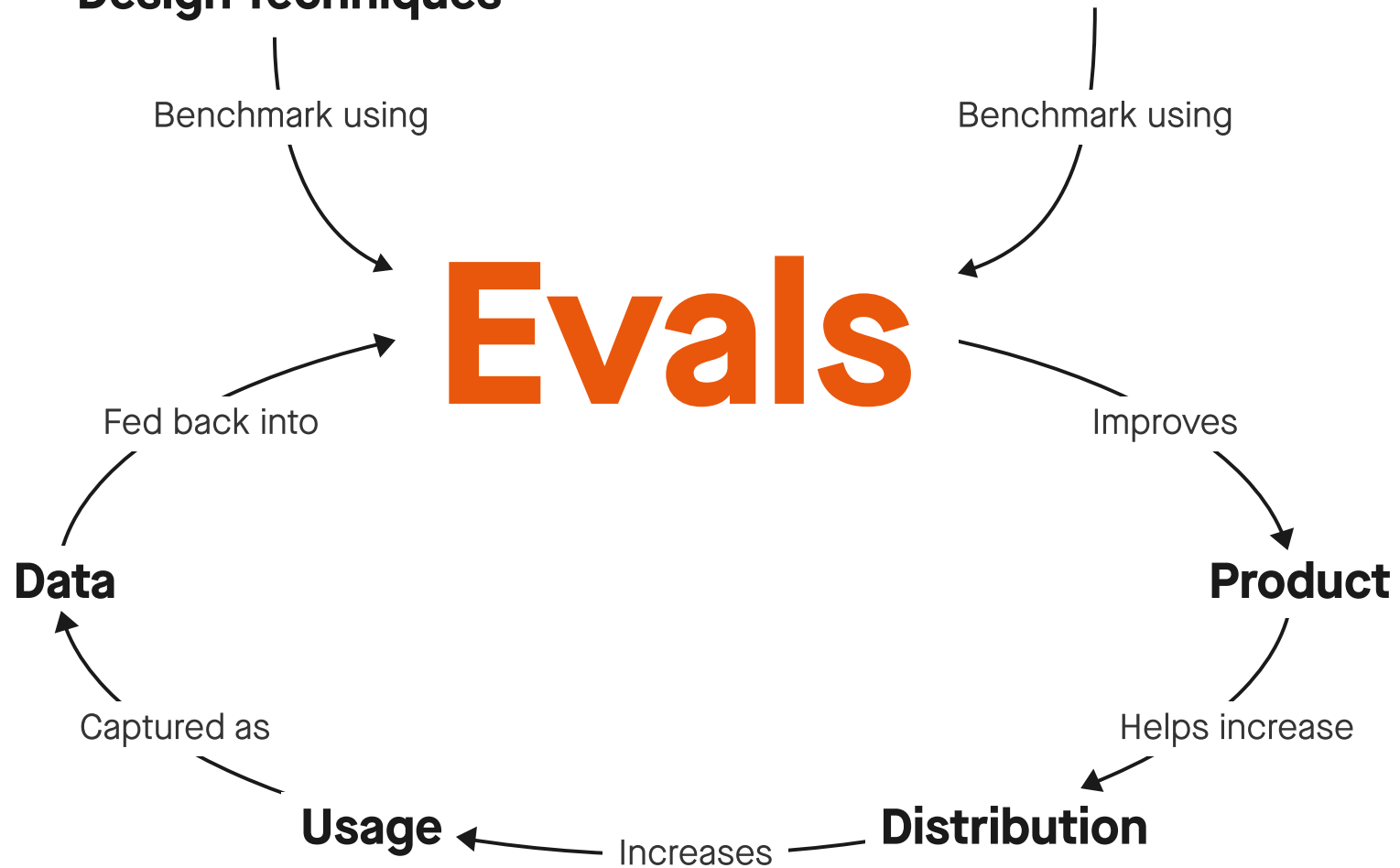
# It's The Evals, Stupid

Evals are the AI Engineer's unit tests. They help you adapt to new models and fix bad behavior. Without good evals, you're flying blind.

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## ⚠ New Prompting/System Design Techniques

## ⚠ A New Model Appears



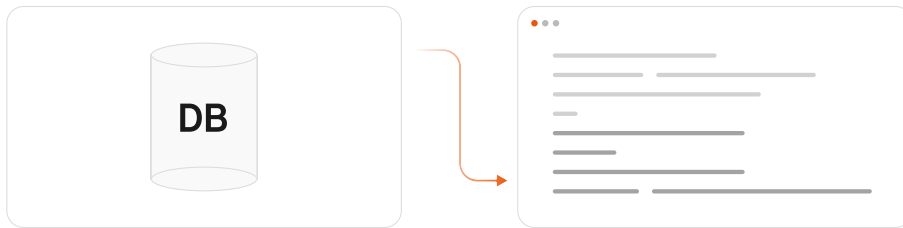
# It's All Prompt Engineering

All these buzzwords can be confusing. But they're really just improved prompting techniques.

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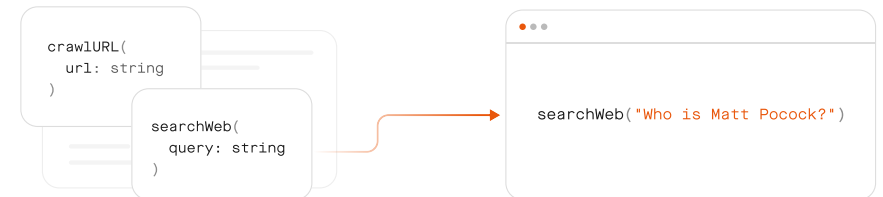
## RAG

Fetch information from somewhere, put it in the prompt.



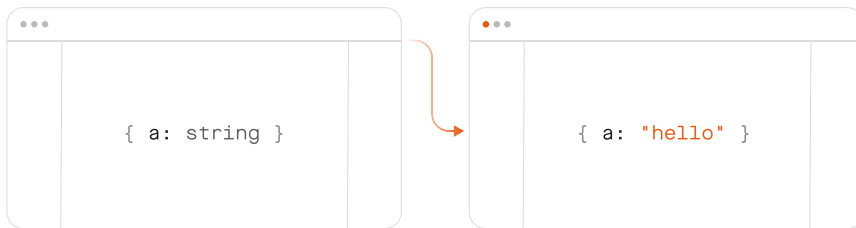
## Tool Calling

Prompt the LLM with a menu of "actions" it can take in the world.



## Structured Outputs

Prompt the LLM to return a certain shape.



## Workflows

Use multiple prompts split over different LLM calls. Stopping point hard-coded.



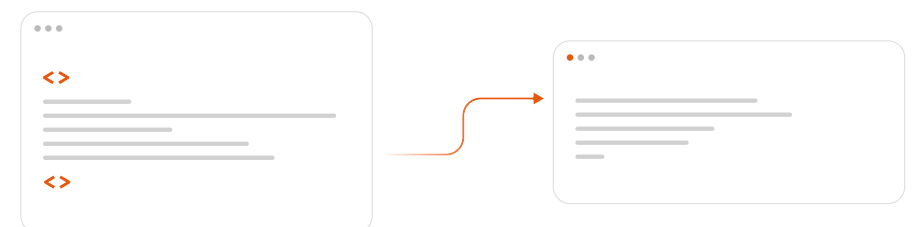
## Agentic Loop

LLM interacts with the world via tools, results go back into the prompt. LLM decides when to stop.



## Reasoning

Force the LLM to think through its actions via <thinking> tags.



# The Staircase To Optimization Hell

Building a new feature? Start at the top of the staircase and walk down. Each step gets more complex and expensive.

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