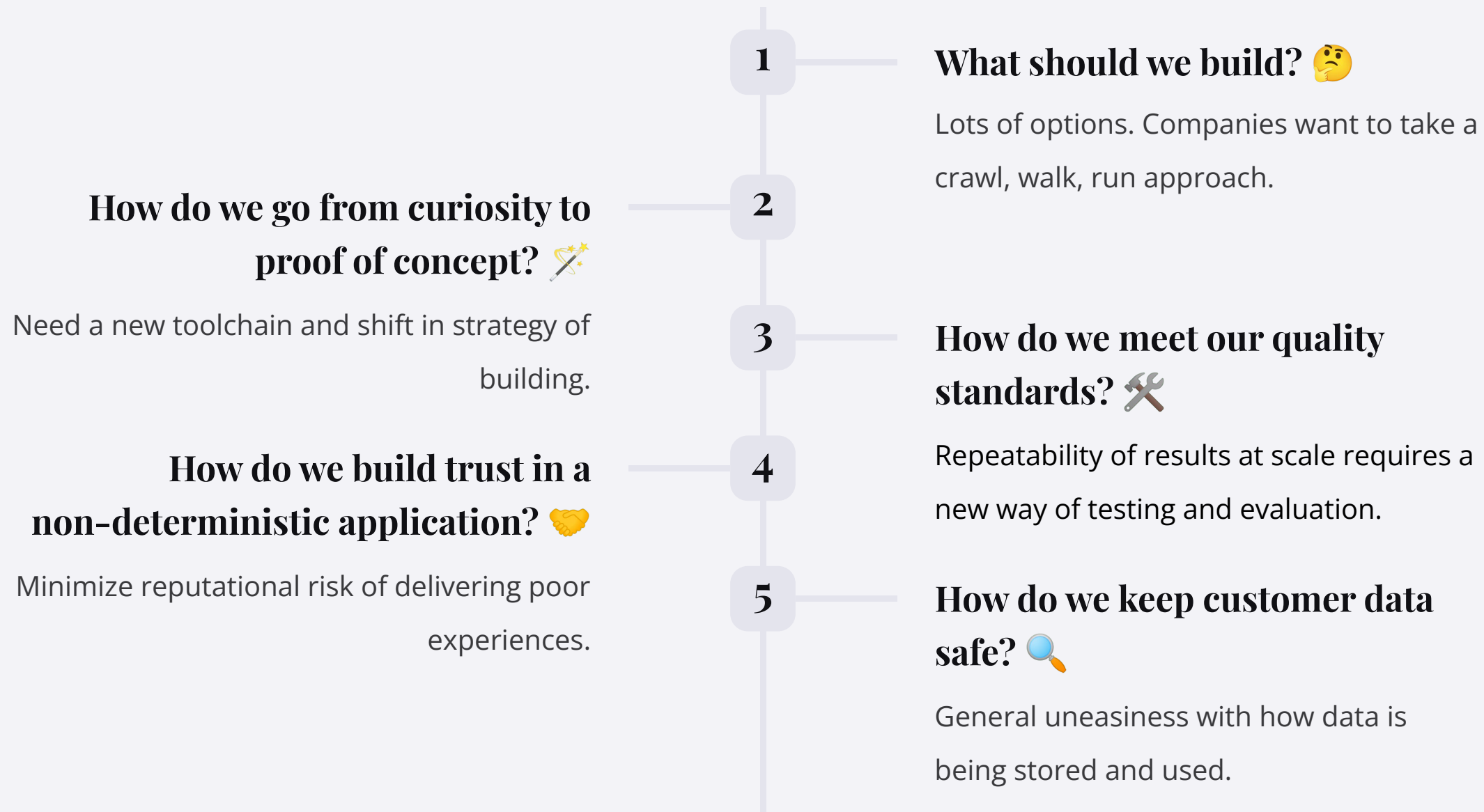




# LangChain

Build context-aware reasoning applications,  
with ease and confidence

**The promise of LLM-powered applications is extraordinary.  
Companies are going on a similar, frenzied journey of exploring  
how to harness the power of gen AI for their business.**



**Companies fear being left behind. They must adapt or risk becoming outdated.**

# Companies building with LangChain are creating applications to....



## **Boost employee and operational productivity**

Search over documentation.  
Automated customer support.  
Unstructured data extraction.  
Summarization.  
Code generation.



## **Improve personalization and discovery**

Surface tailored information.  
Natural language search.  
Creative shopping experiences.



## **Introduce new product and revenue opportunities**

Products which were once too costly or difficult to deliver are now possible.



**LangChain**

The developer framework to build  
context-aware reasoning applications



**LangSmith**

The developer platform to supercharge  
the full application lifecycle.

**Better together.**



## The LLM ecosystem is evolving at a breakneck speed.

The LangChain framework provides:

- choice and flexibility of components
- successful cognitive design patterns for interacting with LLMs
- extensive reference examples and quick-start building blocks

# Software engineers can become AI engineers, leveraging new cognitive architectures and familiar orchestration

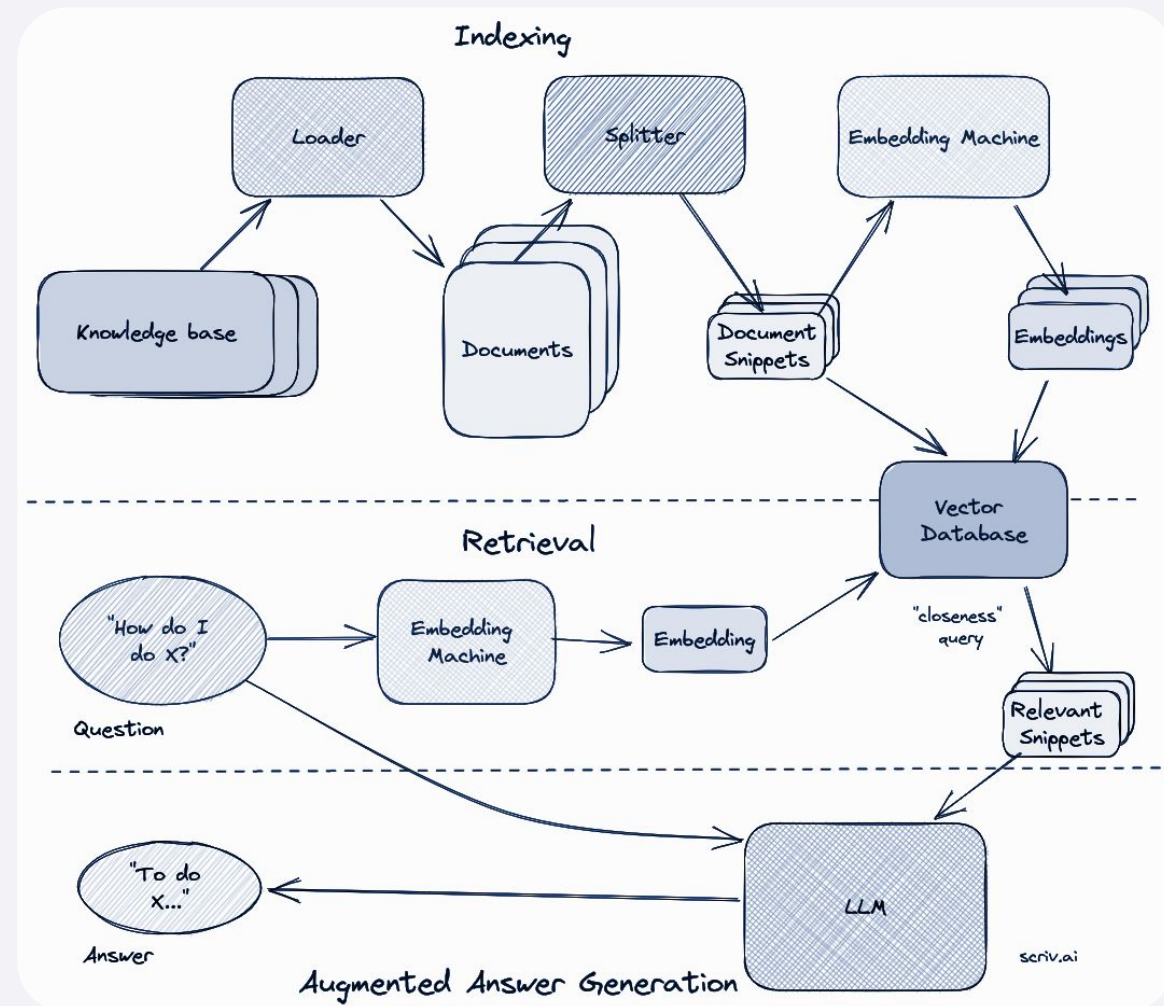
## Cognitive architectures:

- ReAct
- Tree-of-Thought
- Plan-and-execute
- Reflexion
- Few shot prompting

## Interaction patterns:

- Chat
- Long term memory
- Entity memory
- Agents

## LangChain Orchestration:

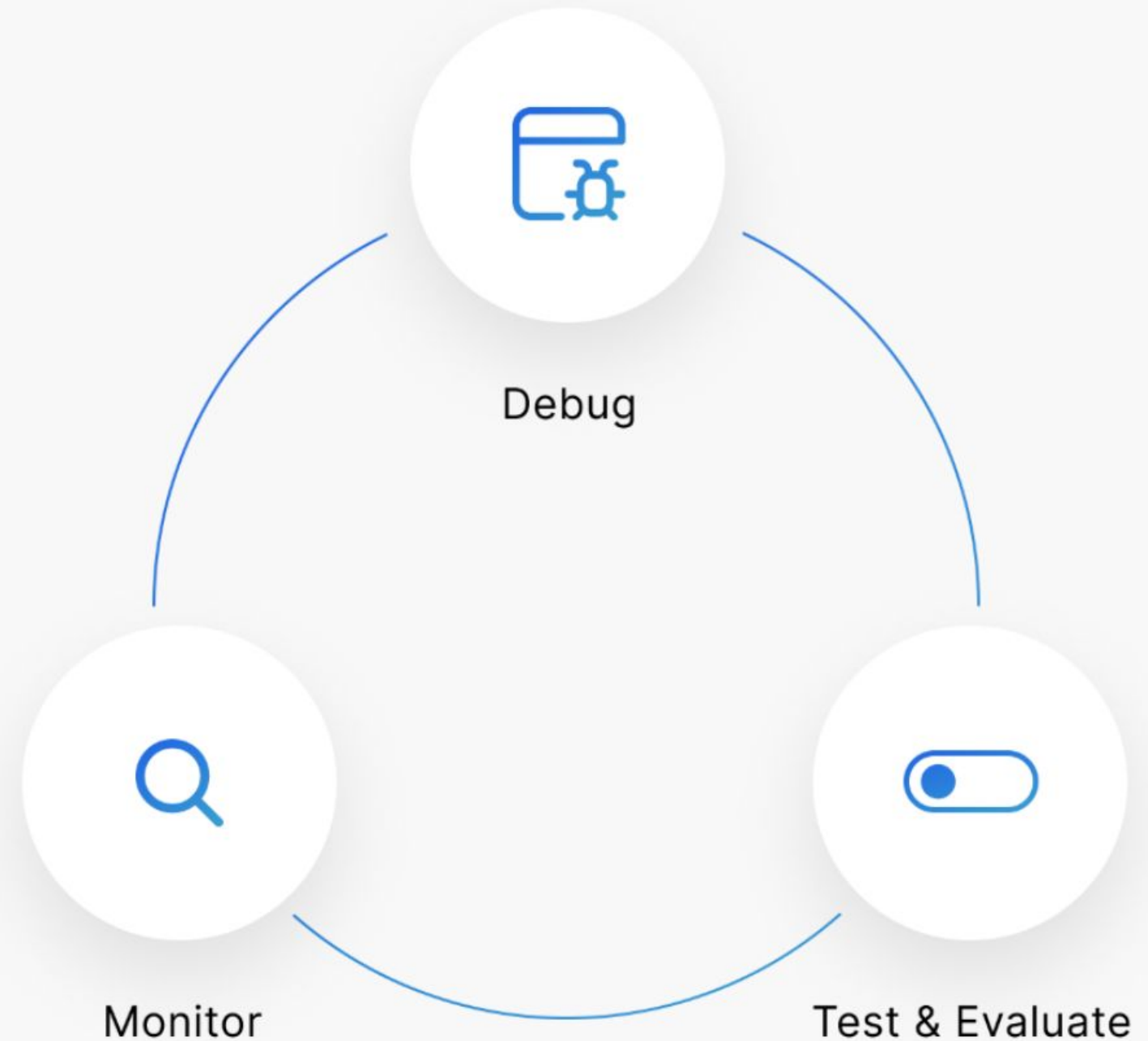



**LangChain brings the force of the community  
to keep pace with the cutting edge, so you can  
too.**



## LangSmith turns LLM "magic" into enterprise-ready applications.

LangSmith is an all-in-one developer platform for building, testing, and monitoring LLM applications.



 **AgentExecutor** Run

TOTAL TOKENS  
5,271

RUN

HUMAN

```
1 {
2   "input": "how many mo
3 points were scored in th
4 2023 super bowl than in
5 2022 super bowl?"
6 }
```

JSON ⌵

AI

```
1 {
2   "output": "The final
3 score of the 2023 Super
4 Bowl was Kansas City
5 Chiefs 38, Philadelphia
6 Eagles 35. \n\nThe fina
7 score of the 2022 Super
8 Bowl was Los Angeles Ra
9 23, Cincinnati Bengals
10 \n\nTherefore, there we
11 15 more points scored i
12 the 2023 Super Bowl than
13 in the 2022 Super Bowl."
14 }
```

JSON ⌵

RUN TREE

Chain AgentExecutor

🕒 13.57s | 5,271 tokens

Chain LLMChain

🕒 1.46s | 144 tokens

LLM ChatOpenAI

🕒 0.88s | 144 tokens

Tool Search

🕒 2.87s

Chain LLMChain

🕒 1.97s | 2,037 tokens

LLM ChatOpenAI

🕒 0.88s | 2,037 tokens

Tool Search

🕒 3.50s

Chain LLMChain

🕒 2.07s | 3,090 tokens

LLM ChatOpenAI

🕒 2.48s | 3,090 tokens

# Debug

Get visibility into what your agent or chain is doing and what context is being provided to the prompts.

**Try. Evolve. Observe. Repeat.** until you're happy with your results.

# Experiment

Try out different prompts and models in a playground.

Keep in the flow, with a scratchpad to test out ideas all in LangSmith.

LangChain Inc. < Back to ChatOpenAI Run

Editing ChatOpenAI

Settings

Model

gpt-3.5-turbo-16k

Temperature

0

Maximum Length

-1

Top P

1

Presence Penalty

0

Frequency Penalty

0

Function Call

auto

Functions 1

Stop Sequences

+ Add stop sequence

Input

SYSTEM

You are an expert developer who is tasked with providing accurate documentation to answer question about the following question as best you can. Be CORRECT Python code snippets if relevant. If you can't find the answer, DO NOT hallucinate. If you don't know, You have access to a LangChain retriever tool for your answer but know Nothing about LangChain otherwise. Always provide article as action input. You should always first check for information on the concepts in the question before providing an answer.

HUMAN

How do I run a model locally?

+ Add Message

# Discover

Need inspiration for prompts that *just work*?

Pull in proven prompting strategies from the community or your organization's prompt Hub.

StringPromptTemplateEnglish

gregkamradt/test-question-making

This prompt helps make a question for a test based on context.

{x} Prompt • Updated 5 days ago • 16 • 2.26k • 2 • 1

ChatPromptTemplateSummarizationEnglishopenai:gpt-3.5-turbo

hardkothari/blog-generator

The prompt to generate a blog article from the given text for specific target audience.

{x} Prompt • Updated 8 days ago • 14 • 1.87k • 19 • 1

ChatPromptTemplateQA over documentsEnglish

rlm/rag-prompt

This is a prompt for retrieval-augmented-generation. It is useful for chat, QA, or other applications that rely on passing context to an LLM.

{x} Prompt • Updated 6 days ago • 11 • 2.62k • 393 • 3

Use Cases

☐ Agents8

☐ Autonomous agents1

☐ Chatbots18

☐ Classification4

☐ Code understanding5

☐ Code writing5

☐ Extraction16

☐ Interacting with APIs1

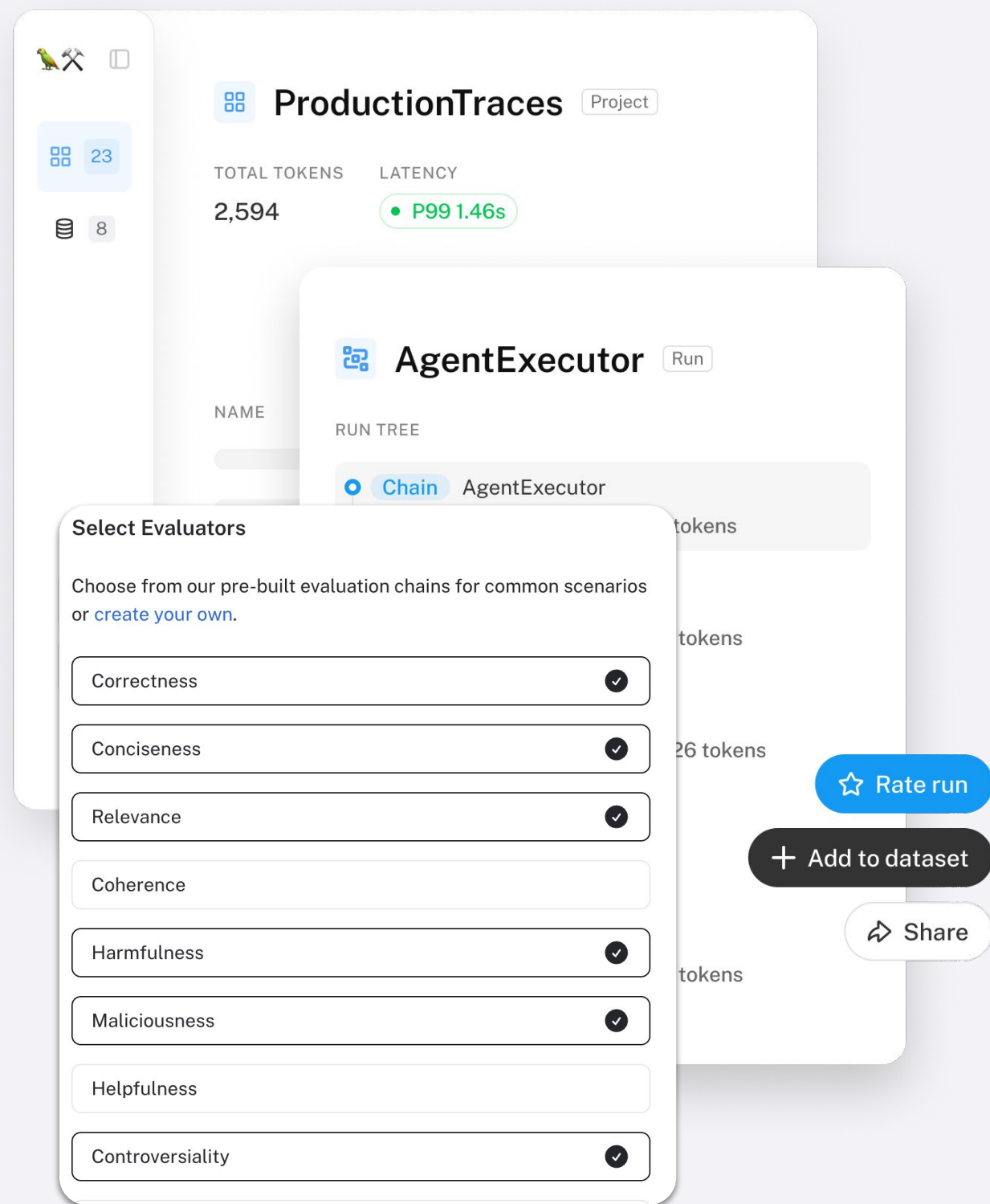
☐ QA over documents22

☐ Self-checking4

☐ SQL2

☐ Summarization24

☐ Tagging4



# Test and evaluate

Layer in human feedback on runs or use AI-assisted evaluation, with off-the-shelf and custom evaluators that can check for relevance, correctness, harmfulness, insensitivity, and more.

**Stress test quality over large datasets.  
Leave nothing to chance.**

# Monitor

Cost, performance, quality. We have you covered.

See what's happening with your production application, so you can take action when needed or rest-assured while your chains and agents do the hard work.



# Build alongside us.

## **Benefit from the momentum and scale of the LangChain ecosystem**

- 1500+ contributors
- 60+ models supported
- 100+ tool integrations
- 20k+ applications live
- Keep up with the cutting edge, with less effort.

## **All-in-one platform**

LangSmith is designed to be a complete platform, tailor-made for LangChain.

Our diverse users and use-cases fuel a comprehensive roadmap.

## **Built by LLM experts and funded for the long-term**

Best practices are designed into LangChain and LangSmith. Let our team guide you to success.

Capital raised from Benchmark and Sequoia.



# You're in good company

"LangSmith's ease of integration and intuitive UI enabled us to have an evaluation pipeline up and running very quickly. Additionally, tracing and evaluating the complex agent prompt chains is much easier, reducing the time required to debug and refine our prompts, and giving us the confidence to move to deployment" - Dan Sack, Managing Director and Partner at BCG

