

DataRobot



Venky Veeraraghavan

Chief Product Officer

25+ years of experience building data and AI systems for some of the largest and most complex organizations in the world

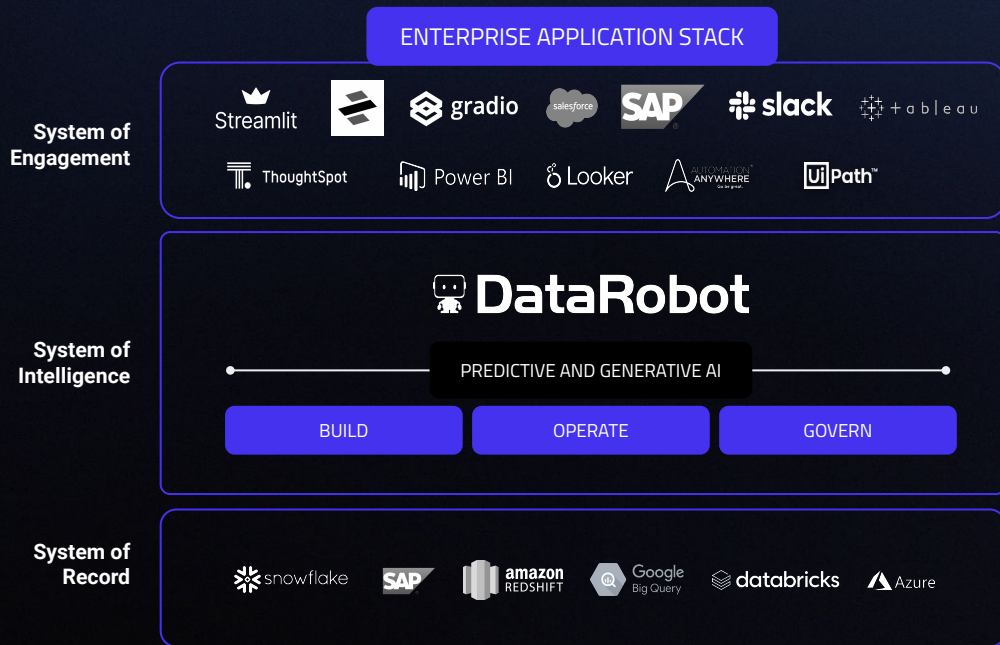
What is DataRobot

A unified system of intelligence for every AI initiative

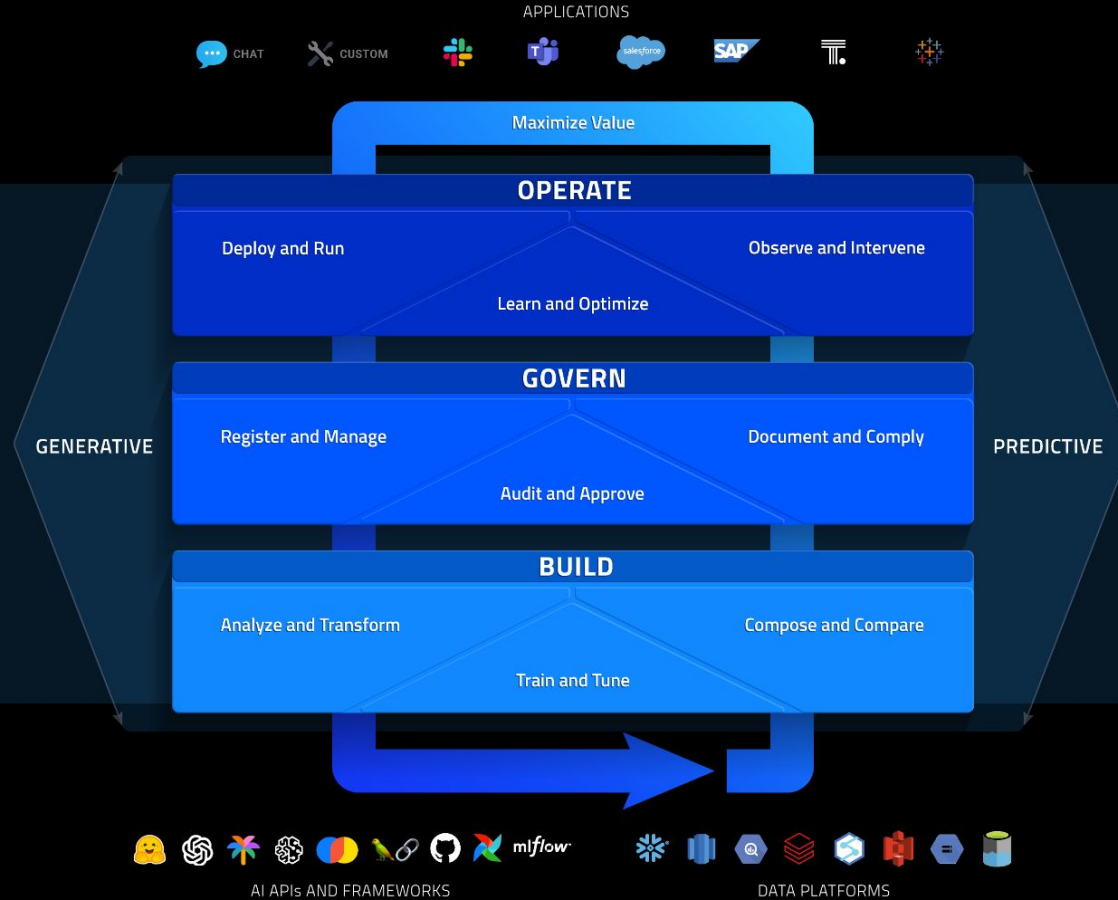
End-to-end: One unified platform to build, govern, and operate predictive and generative AI

Optionality: The most open ecosystem giving you the freedom to adapt as needs evolve

Flexibility: Create and deliver a wide range of AI applications and AI-powered solutions



DataRobot AI Platform



Last year was the
show me year of Gen AI

This year is going to be the **prove it** year

The UK is leading the way in Europe, and on a global stage

#3

3rd largest market globally,
behind US and China

31%

Increase in AI adoption
between 2022 and 2023

39%

Businesses have incorporated
AI into daily operations

Source: UK Government statistics

Generative AI **Perception** and **Reality** Gap

Perception

"It's all about the model"

- Fixated on fine-tuning
- Lack moderation & safety
- Overlook maintainability
- Struggle to trust results

Reality

Value depends on the end-to-end generative strategy

- Vector DB quality is critical
- Prompting strategy is critical
- Monitoring/Moderation is critical
- Maintenance and governance is critical

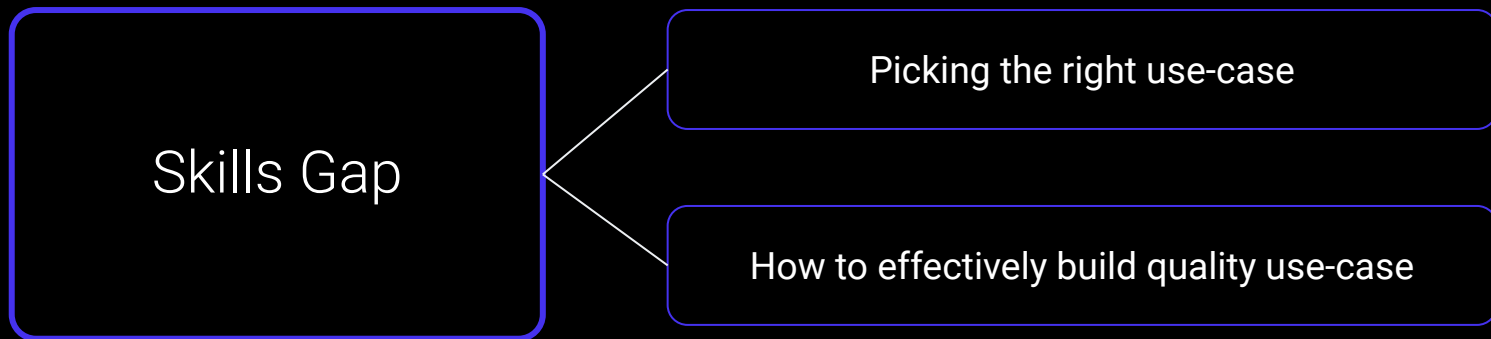
Key Barriers to Value with GenAI

Skills Gap

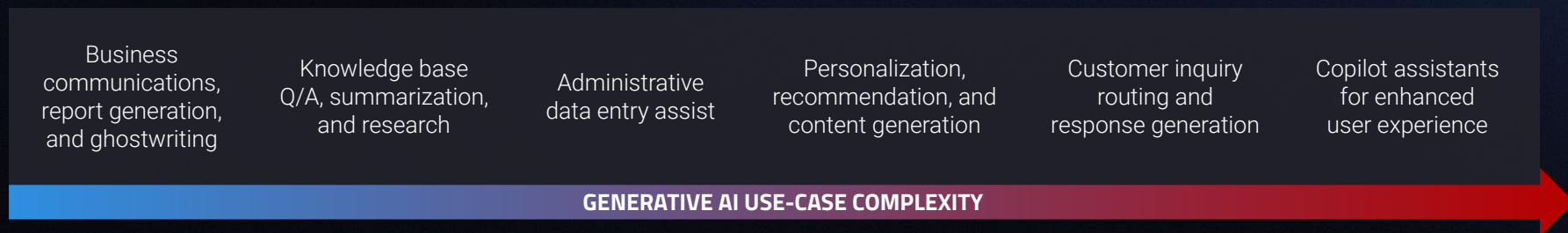
Ecosystem

Governance

Key Barriers to Value with GenAI



Start low risk, low complexity then move up



Low Complexity

- Internal users only
- Basic prompting and pipelines
- Simple app integrations
- Human in the loop
- High-latency

High Complexity

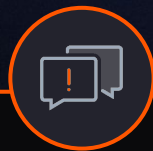
- Public facing
- Advanced prompt chains and pipelines
- Complex applications integrations
- Automated monitoring and safety
- Low Latency

Building high quality GenAI is hard



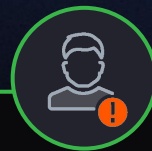
Data Storage

- Documents & Data Cleansing
- VectorDB
- Embedding model
- Chunk size
- Filtering & metadata



Retrieval

- Retrieval technique
- Number of documents to retrieve
- Relevance threshold
- Add nearby documents
- Multiple QA
- HyDE (and its inverse)

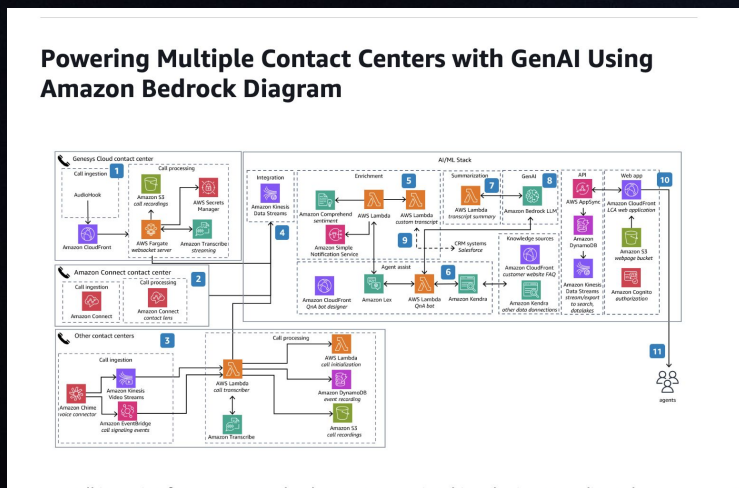


Model

- LLM
- Temperature
- System Prompt
- Chat History

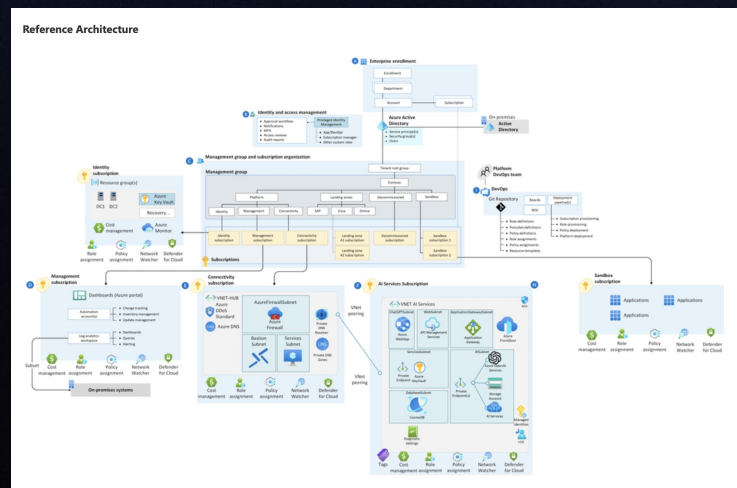
Hyperscalers aren't making it any easier

17 Different Tools



<https://docs.aws.amazon.com/architecture-diagrams/latest/powering-multiple-contact-centers-with-gen-ai-using-amazon-bedrock/powering-multiple-contact-centers-with-gen-ai-using-amazon-bedrock.html>

14 Different Tools



<https://techcommunity.microsoft.com/t5/azure-architecture-blog/azure-openai-landing-zone-reference-architecture/ba-p/3882102>

However, we are still facing barriers



There is **no sure
bet today or in
the future**

“

Although hyperscale, cloud, integrated infrastructure as a service and platform as a service (IaaS+PaaS) providers offer a range of GenAI capabilities, it's too early to predict which will emerge as market leaders in any of the capabilities categories.”

Source: “Quick Answer: Which Cloud Provider Offers the Best Generative AI Business Outcomes?”, Gartner, July 26, 2023

Future Proof your Stack to Integrate with **any AI task**



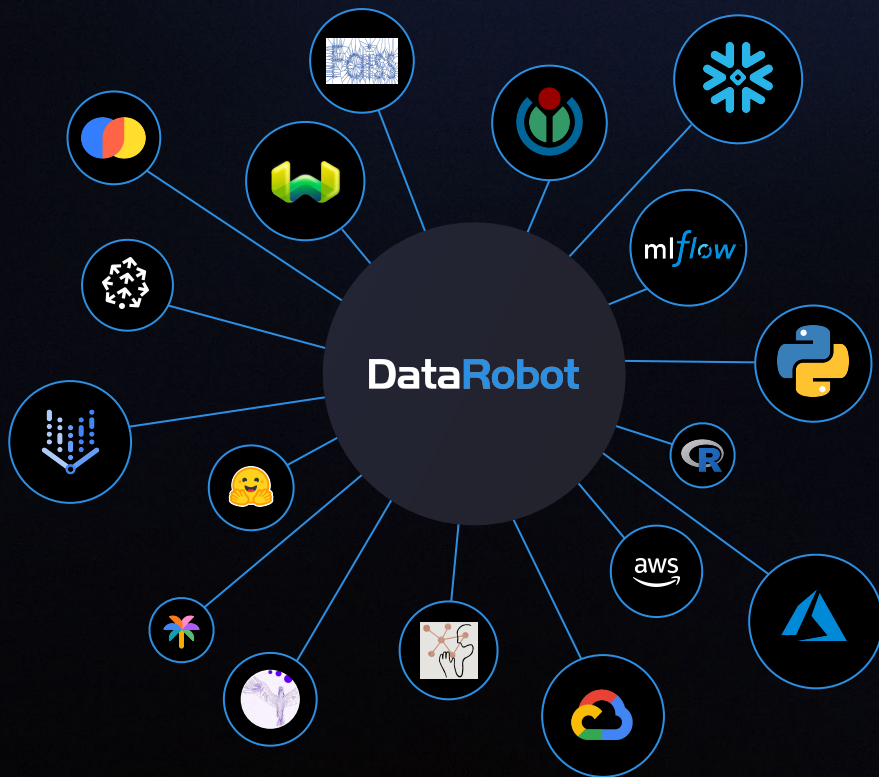
Generative AI

Integrate generative tools including vector DBs, LLM APIs, monitoring tools & comparison playgrounds into a single system.



Predictive AI

Code-first & no-code ML tools, for classification, regression, time series, anomaly detection, geospatial & vision along with experiment tracking, governance & monitoring.

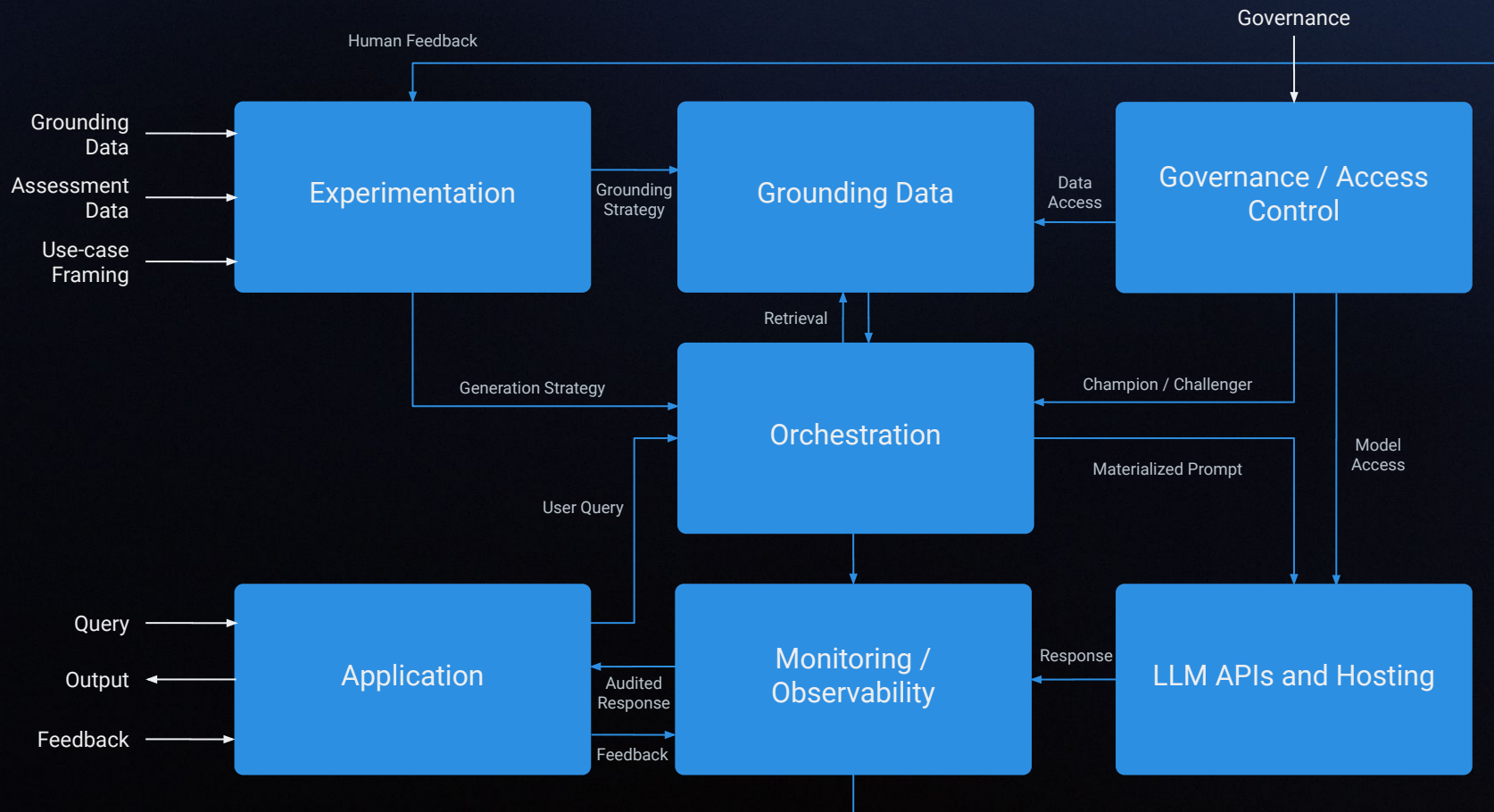


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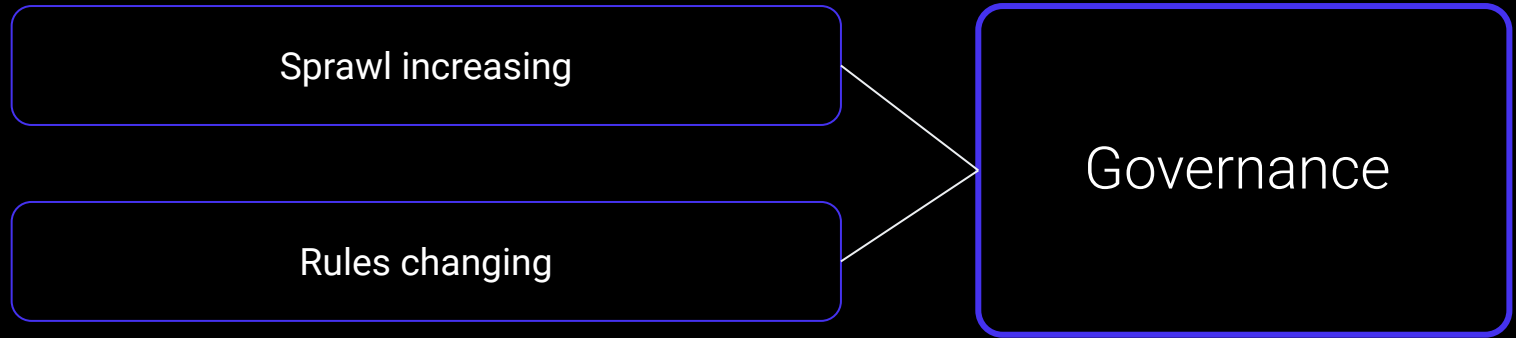
The **generative AI** space is changing so fast but the **flexibility, speed, and interoperability** of DataRobot is helping us stay on the cutting edge.”

Rosalia Tungalaza,
AVP of AI, Baptist Health
South Florida

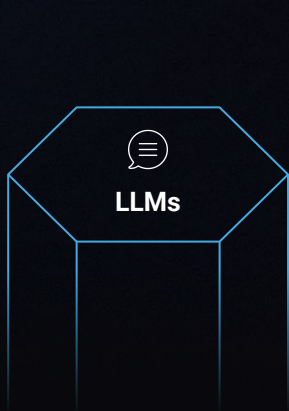
Let's Peek Under the Hood



However, we are still facing barriers

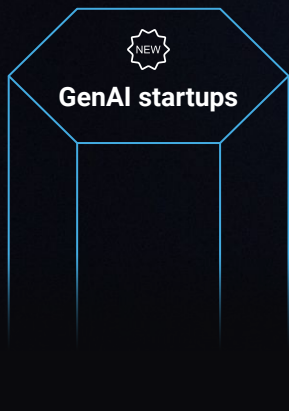


AI sprawl is **accelerating** & silos are **increasing**



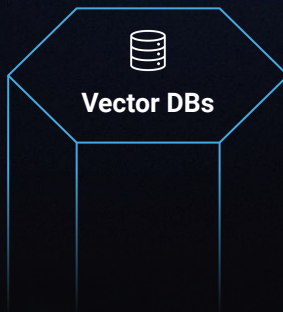
142+

Open-source LLMs



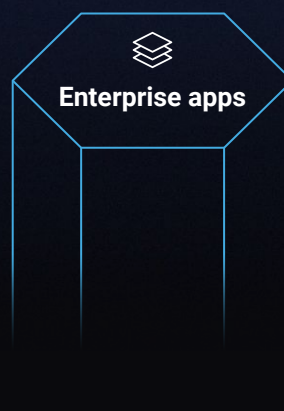
335

New startups
developing GenAI
applications



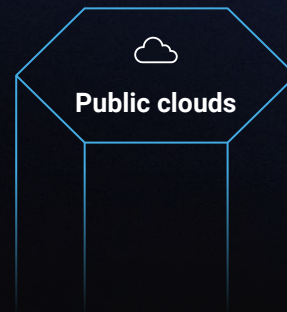
17

Hosted Vector DB
options



254

Average number of
software applications
within an enterprise



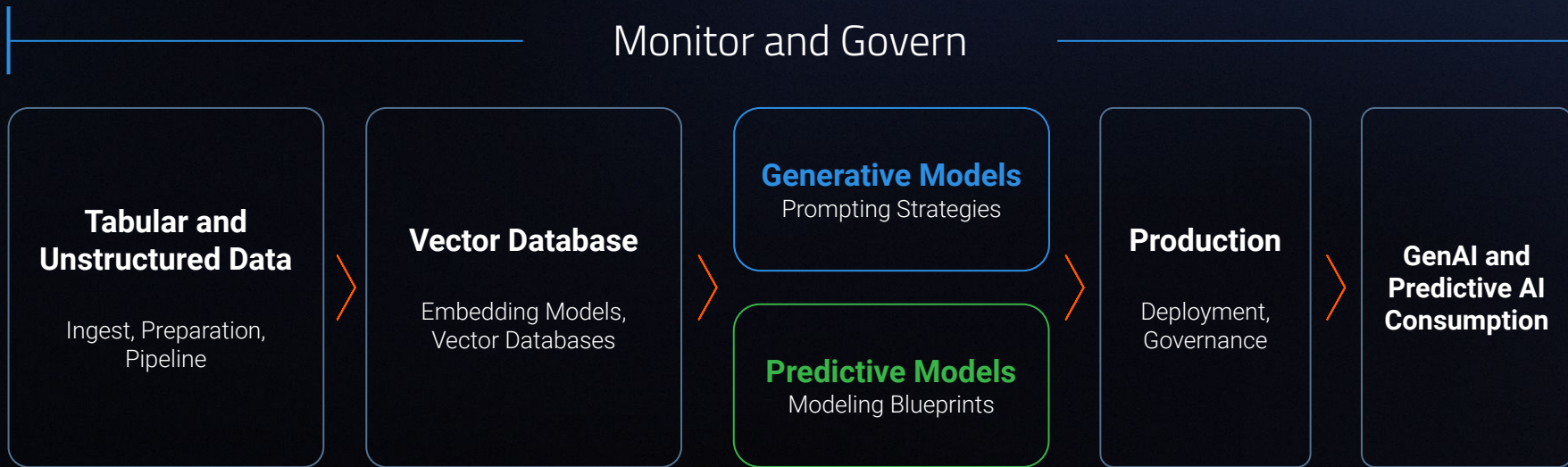
80%

Of organizations
use multiple cloud
providers

Proper Governance Requires **Multiple Lines of Defense**



Deploying and managing in production



Steps to overcome Key Barriers to Value with GenAI

Skills Gap

- Build skills for the right use-cases
- Start with low risk
- Eliminate uncertainty when building
- Learn through iteration

Ecosystem

- Maintain control with optionality
- Modernize your AI Infrastructure
- Bring in best of breed tools

Governance

- Track all AI artifacts and actions
- Focus on robust monitoring
- Measure quality w/ assessment metrics
- Test and Document everything

Fueling real-world value

Freddie Mac

Doubling data
science productivity

2.7x **2-10x**

Productivity Faster POV

1700+

Hours saved in model
development time

FORDDIRECT

Improving sales
and service with
AI-powered insights

\$3M **18x**

In reduced Uplift in lead
tech debt buying propensity

75%

Faster to get to implementation

bsi.

“The value of having a single platform that pulls all the components together can’t be underestimated. Then there’s the combination of the technology and the collaborative DataRobot team. If either one of those wasn’t there, I would have looked elsewhere.”

Craig Civil

Director of Data Science & AI

Visit the DataRobot Booth to get started

Book a 1:1 strategy session

Let's review your organisation's challenges and unlock business value with generative AI together.

Generative AI Catalyst Program

Get to value quickly and accelerate delivery of your generative AI use cases by leveraging our world-class generative AI platform, deep AI expertise, and knowledge from hundreds of DataRobot customers. Speak to our team to learn more.

Start a free trial

Try DataRobot yourself at: datarobot.com/trial

Jumpstart your project with an AI Accelerator

See reference code in action at
https://community.datarobot.com/t5/ai-accelerators/bd-p/ai_accelerators



Thank You