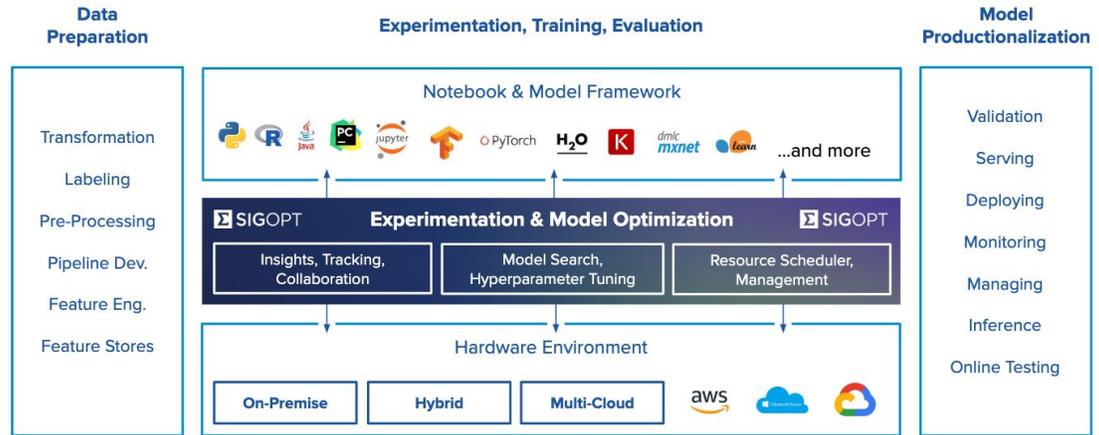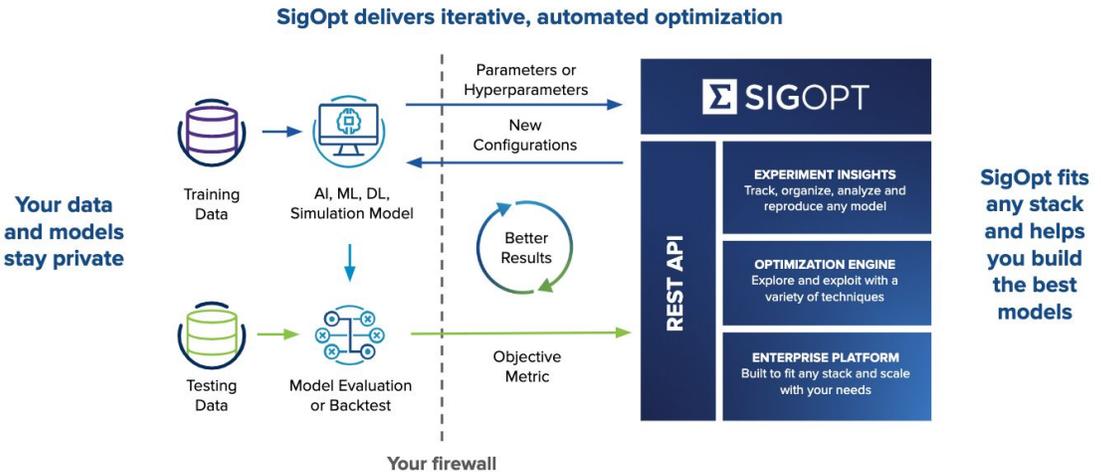SOLUTION

Build the best models with SigOpt

Experimentation and optimization are critical to any modeling process. SigOpt's fully agnostic solution automates experiment management and hyperparameter optimization for any modeling stack. It is the perfect complement for your modeling process.

SigOpt's solution empowers any team to build the best models. Experiment Insights provides deep analytics on every model in an intuitive web dashboard. SigOpt's Optimization Engine delivers better models much faster and cheaper through an easy-to-integrate API. And the Enterprise Platform meets 99.9% uptime SLAs, while scaling to millions of API calls per hour. Our users optimize their models in a few short steps.

SigOpt is easy to integrate in hours and delivers measurable benefits immediately:

- **Performance**: Build better-performing models much faster. In one case for Two Sigma, we delivered better results 8x faster than GPyOpt.

- **Productivity**: Automate time-consuming tasks. In one case, a global consulting firm with thousands of modelers realized 30% productivity gains using SigOpt.

- **Scale**: Standardize and scale modeling. Fit SigOpt into any stack and asynchronously parallelize models up to 100x to maximize resource utilization.

Experiment Insights, Optimization Engine & the Enterprise Platform

SigOpt's solution is designed to scale experimentation so that experts are empowered to build high-performing models for any modeling use case. This approach includes standardized experiment insights, cutting-edge model optimization and a fully modular enterprise platform that integrates with any modeling stack.

Experiment Insights

Collaborate	Define teams and share model insights during experimentation
Track	Easily reproduce past experiments that are all saved on our system
Analyze	Inform future model development with performance insights

Optimization Engine

Parameters	Support for continuous, categorical, and integer parameters
Complexity	10,000 observations, 100 parameters, 100x parallelism for all models
Multisolution	Hedge model performance by uncovering multiple optimal solutions
Multimetric	Solve for competing objectives in a single experiment
Conditionals	Automate search for architectural and pipeline parameters
Constraints	Establish constraints or learn failure regions for adaptive optimization
Multitask	Efficiently tune even the most expensive deep learning models

Enterprise Platform

API	Seamless integration with just a few lines of code
Black Box	Never accesses any data or model, ensuring security and privacy
Infrastructure	Any infrastructure, including public clouds, private clouds and on-premise
Models	Fully model agnostic - tune any parameters for any model type
Framework	...and more
Languages	...and more