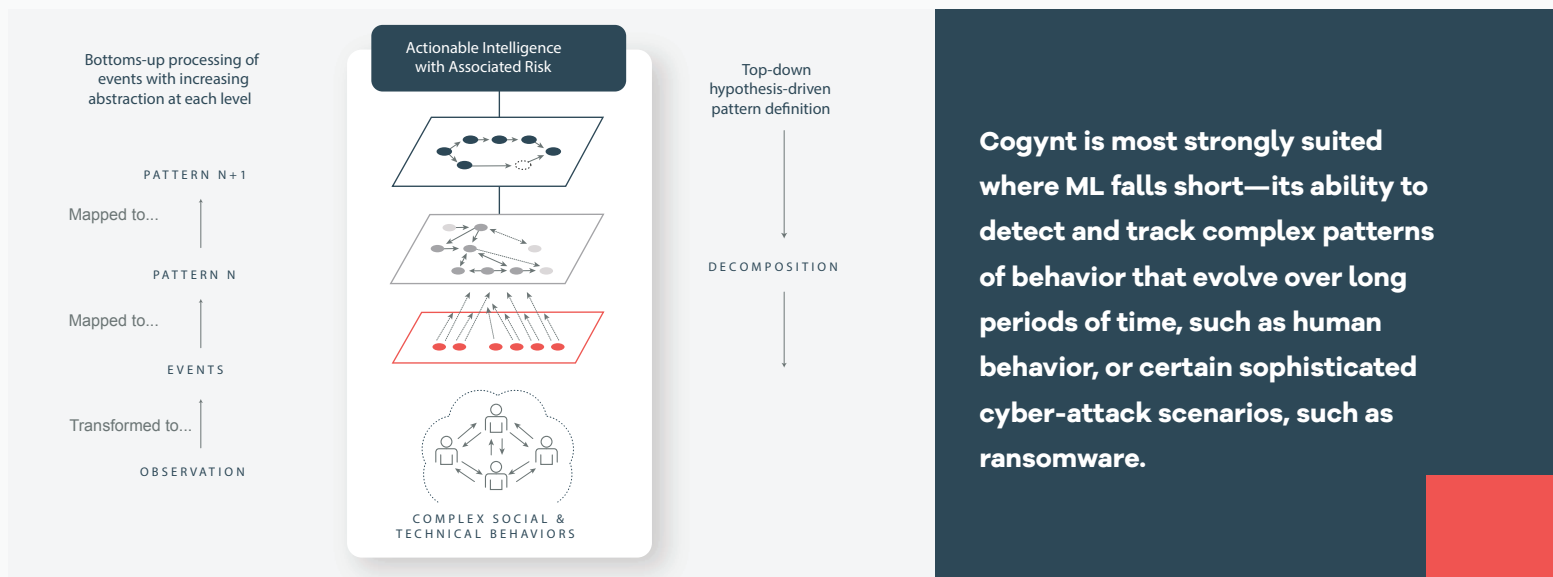




Cogynt — A Comprehensive and Versatile Big Data Continuous Intelligence Platform

Intelligence analysts and decision makers, and by extension the enterprise, are largely behind the curve when it comes to implementing effective predictive intelligence solutions. This is due to the ever-expanding flow of data and the limitations of current IT and analytic systems. Analysts are simply overwhelmed, resulting in unquantifiable risk exposure and lost opportunity for the enterprise.



Cogynt is most strongly suited where ML falls short—its ability to detect and track complex patterns of behavior that evolve over long periods of time, such as human behavior, or certain sophisticated cyber-attack scenarios, such as ransomware.

Cogility has spent more than 10 years researching and developing technology to address this critical issue. The product of this effort, Cogynt, is a continuous intelligence (CI) platform that delivers contextualized predictive intelligence for analysts and decision makers. It provides event modeling, automated documentation, full provenance event detection, and complete coverage of an enterprise’s risk surface. Cogynt accomplishes this by ingesting all available data and matching the data (events) in real time to targeted patterns of behavior. Targeted behaviors are those impacting risk levels or identifying the emergence of opportunity. These behavioral patterns are generally well known by the enterprise’s subject matter experts (SMEs) and can be modified as new information and insights dictate.

Cogynt is a modern Event Stream Processing analytic platform augmented with Cogility’s patented real-time analytic and authoring environment and advanced visualization capabilities. This system was built for big data problems that can be elastically scaled within cloud environments.

Hierarchical Complex Event Processing

The heart of the Cogynt CI platform is the Hierarchical Complex Event Processing (HCEP) engine, a form of AI, which is a real-time behavioral analytic. Event patterns are defined from the top-down, starting with a hypothesis. The top-level event pattern is then decomposed into lower-level patterns until the user reaches the raw event level, or observation. Once the model has been established and events are flowing into the HCEP analytic engine, events are matched from the bottom up.

While this process is ongoing, Cogynt is continuously assessing risk using various statistical methods, calculating a statistical likelihood of future events. The event generated from this analysis is known as “actionable intelligence”—contextualized intelligence that a human can act upon.

Cogynt Authoring Tool

Typically, analysts must possess detailed technical knowledge of data sources and associated schemas and collaborate with data engineers to ingest them. The Cogynt Authoring tool eases this burden with its built-in Kafka Topic schema discovery—eliminating manual schema creation and mapping to source data. This greatly simplifies the challenge of creating event patterns against streaming data. Its elegant modeling notation and semantics are easy to learn, enabling a novice analyst or data scientist to be productive after only a few days of training.

Cogynt Analyst Workstation



One of the key objectives of Cogynt is to make analysts more effective and efficient in delivering intelligence products to their stakeholders. To achieve this, Cogility has developed the Cogynt Analyst Workstation to provide a rich suite of analytic tools and visualizations that enhance context, insight, and timeliness within a modern web-based environment that is highly configurable to the analyst’s preferences. This enables the analyst seamlessly to perform multiple analytic functions and to work at “think speed,” providing a direct boost in analyst productivity and overall efficiency.

Cogynt is a Deployable Product

We deliver to the user as a ready-to-use product that can address a wide range of applications spanning government and commercial use cases such as counter-insider threat, cyber insurance underwriting, cyber threat intelligence, supply chain risk, and fraud.

COGILITY

If you’d like to learn more about Cogynt, please contact Cogility Sales at sales@kogility.com