

SEMANTIC LLM ACCELERATOR

The advancements in generative AI have been ground breaking. However, for many organizations, the core concerns remain explainability, hallucinations, and ethicality of AI models to drive enterprise adoption. With the right context, Large Language Models (LLMs) can be a great tool to accelerate enterprise digital transformations. Knowledge graphs provide that enterprise context, giving organizations the ability to understand and trust LLMs to take advantage of their powerful applications.

Knowledge graphs are the bedrock of enterprise AI, enabling the next generation of Search, Recommendation, Chatbots, Graph Machine Learning, Natural Language Question Answering, and more. Through this accelerator, you will be able to...



Talk to your private data using natural language questions

Power interactive chatbots for your internal users and customers, resolving inquiries and providing information across industries, from customer support to marketing.



Enhance and augment monitoring and resolution of issues

Assist users in diagnosing and resolving technical issues by embedding product information alongside operations standards.



Accelerate content and data production on demand

Efficiently generate reports, articles, and documents with natural language inputs, saving time and enhancing productivity.



Create job aids and provide learning on demand

Empower employees with dynamically generated, on-demand learning resources and job aids, making training more efficient and effective for your workforce.

Why Knowledge Graphs for LLMs?

LLMs used in conjunction with graphs allow for enhanced data understanding, provide context-rich insights, and enable more intuitive interactions by combining structured knowledge representation with advanced natural language processing capabilities. Common use cases include:

Improved Contextual Understanding & Enterprise Personalization

Knowledge graphs provide structured and interconnected data that helps LLMs better understand and contextualize information, leading to more coherent and relevant responses.

Avoid Hallucinations

Knowledge graphs enable LLMs to verify facts and statements, increasing the accuracy and reliability of the information they generate.

Personalization & Data Aggregation

Knowledge graphs aggregate siloed data and user-specific information, allowing LLMs to provide personalized and comprehensive responses that adapt to individual user needs and preferences.

Increased Quality, Lineage, & Reliability

Knowledge graphs support the aggregation and standardization of enterprise data, curating good input information to minimize garbage in, garbage out problems.

What is the Semantic LLM Accelerator?

The Semantic LLM Accelerator is a 10-12 week engagement that will help your organization:

- ✓ Prioritize and pilot your key use cases to quickly validate the application of a LLM;
- ✓ Demonstrate how your organization will benefit from the application of an LLM augmented by a graph;
- ✓ Define and pilot your first implementable version of a Semantic LLM;
- ✓ Align on an implementation roadmap to scale Enterprise AI (e-AI) usage across your organization; and
- ✓ Upskill your team in graph and LLM best practices and standards.

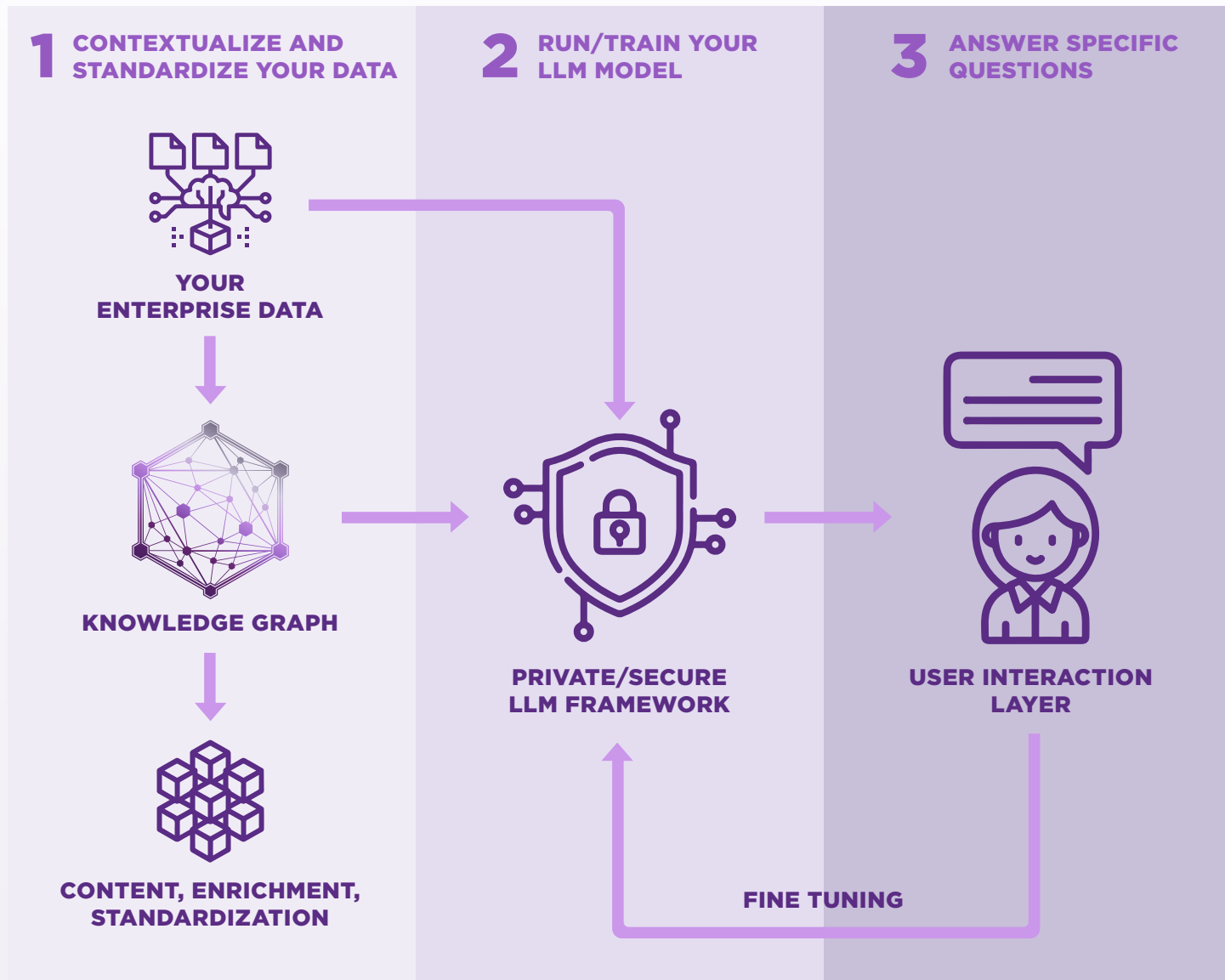
Key Deliverables

- 1 Use case definition and prioritization for LLMs
- 2 Graph conceptual model/ontology creation
- 3 Creation of solution architecture framework, including private LLM selection
- 4 Data preparation, data mapping, and knowledge graph instantiation
- 5 Integration of LLM and knowledge graph
- 6 Clickable prototype for LLM user interaction, validation, and fine tuning



HOW IT WORKS

In 12 weeks or less, build a starter knowledge graph to synchronize and contextualize your content and data, train your LLM model, and harness the collaborative potential of knowledge graphs and LLMs to enhance productivity and effortlessly extract meaningful information for a prioritized use case.



Business Outcomes of the Semantic LLM Accelerator

- ✓ **Get a Starting Point:** Kickstart your journey by creating an initial Semantic LLM instance, demonstrating the tangible benefits of this technology for your organization before making a long-term investment.
- ✓ **Align on Enterprise AI Strategy for Scale:** Findings from the initial use cases will inform a repeatable approach & long-term roadmap to scale the Semantic LLM application as well as larger AI use cases in line with organizational objectives.
- ✓ **Encourage Adoption:** Implementing a Semantic LLM quickly will create interest and ownership by allowing users to see tangibly how their data challenges will be addressed.

