



Beyond Retrieval Intelligence Synthesized

0%

HALLUCINATION RATE

90.0%

ACCURACY

100%

AUDITABILITY

1M

CHUNKS PER INSTANCE

KOGNIX GenAI Engine



What is it

KOGNIX GenAI Engine

In the modern enterprise, Large Language Models (LLMs) offer immense potential but face two critical barriers: hallucinations and a lack of domain-specific context. KOGNIX AI Engine was engineered to solve these challenges.

We provide a robust, secure, and highly scalable framework that grounds AI in verifiable, proprietary data. By bridging the gap between raw information and actionable intelligence, it enables organizations to deploy AI that is not only powerful but inherently trustworthy.

Unlock the power of "actionable intelligence" with KOGNIX AI Engine. We help modern enterprises eliminate AI hallucinations by grounding Large Language Models in their own secure data. It streamlines decision-making and boosts efficiency across the board - from the front office to complex research—all within a secure, scalable platform built for the data-driven age.

Accuracy Through Intelligence

We believe that the quality of AI output is determined by the quality of its retrieval. KOGNIX GenAI Engine isn't just an interface; it is a complete Intelligence Infrastructure designed to manage the entire lifecycle of enterprise knowledge.



About us

Leading the Era of Sovereign Intelligence

At **VAI LABs** (Vaikarya AI Labs), we believe that the true potential of Artificial Intelligence can only be realized when it is paired with absolute security and uncompromising accuracy.

As a deep-tech pioneer based in India, we specialize in building Enterprise-grade Generative AI systems designed to run entirely within an organization's private environment.

In a world where data privacy is the ultimate competitive advantage, VAI LABs provides the infrastructure that allows businesses to innovate without boundaries while keeping their proprietary intelligence under total lock and key.



Key Differentiators



Deep Data Understanding

Powered by the specialized DeepAI engine, which performs advanced layout analysis that goes far beyond simple text extraction. It intelligently interprets complex tables, hierarchical headers, image captions, and mathematical equations within PDFs, scanned documents, and technical manuals.



Auditable Citations & Hallucination Control

Every output is supported by verifiable citations. The platform includes a visual chunking interface, allowing stakeholders to inspect the exact source material used to generate an answer, ensuring total transparency and minimizing AI hallucinations.



Low-Code Agentic Workflows

Beyond Standard Q&A the GenAI Engine features a sophisticated visual canvas. This allows teams to architect complex, multi step "Agentic Workflows" that integrate LLM reasoning, internal data retrieval, and external tool execution without the need for custom development.

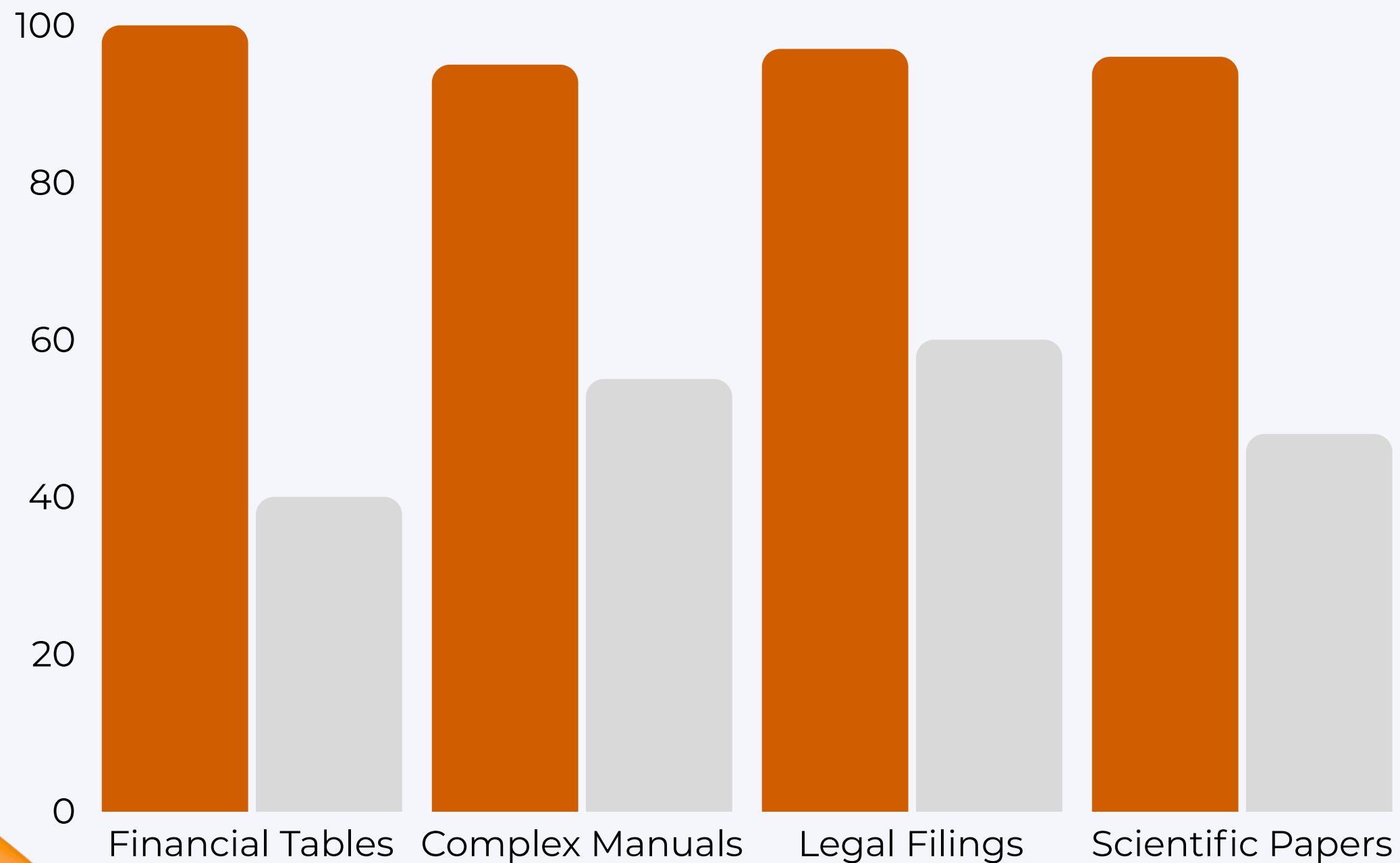


High-Precision Hybrid Search

The engine utilizes a proprietary blend of Semantic Vector Search, Keyword Matching (BM25), and advanced re-ranking algorithms to deliver the most relevant information, even within massive datasets containing millions of tokens.



● KOGNIX ● Others



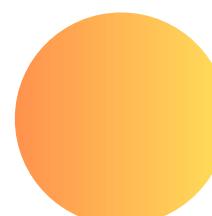
The Precision Disparity

Traditional "Search-and-Generate" models lose 40% of critical data context during the ingestion of complex tables and multi-layered reports. 'Grounded Intelligence Synthesis' utilizes Deep Data Understanding to preserve 90% of semantic relationships.



KOGNIX AI Native DB

- **The High-Performance Backbone:** At the heart of the engine is the KOGNIX AI Native DB. Built for the era of high-dimensional vectors, it is optimized for the specific workloads of Generative AI.
- **Technical Specifications:**
 - **Hybrid Search :** Seamlessly combines Keyword (BM25) and Vector (HNSW) search for maximum recall.
 - **Low Latency :** Sub-100ms retrieval across 10-million+ document indices.
 - **Dynamic Reranking :** Integrated scoring system that prioritizes the most relevant context for the LLM prompt.
 - **Multi-Tenancy :** Secure data isolation for different departments or client orgs within a single cluster.





Enterprise-Grade Security & Governance

- **Your Data, Your Control:** KOGNIX AI Engine is designed for the most regulated industries (Finance, Legal, Healthcare).
- **Security Features:**
 - **On-Premise Deployment:** Run KOGNIX entirely within your VPC or private cloud. No data ever leaves your perimeter.
 - **Auditable Citations:** Every answer generated by KOGNIX includes a "Click-to-Source" feature, highlighting the exact segment of the original document used.
 - **RBAC (Role-Based Access Control):** Ensure users only receive answers based on documents they are authorized to view.
 - **Model Agnostic:** Switch between GPT-4, Claude 3, or local models like Llama 3, Granite etc without re-indexing your data.



Ready to activate your enterprise intelligence?

Don't let your data stay silent. Power your AI strategy with the engine built for the most complex data environments on earth.

Contact Us

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