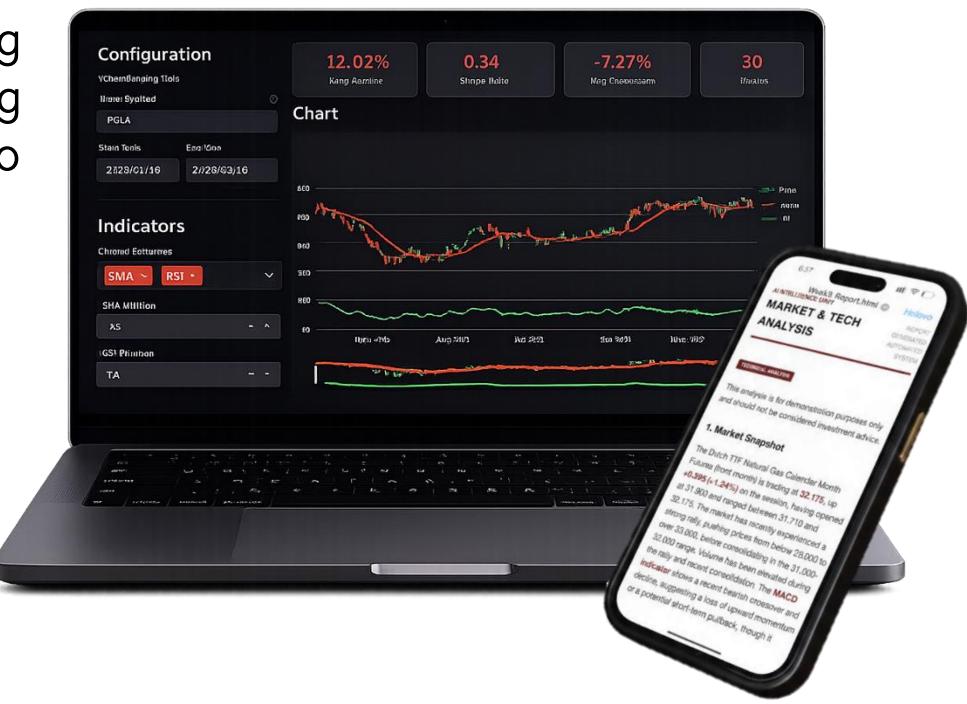


Market data is complex (many sources), fast-changing, and time-series based. Manual reporting is slow and inconsistent. Our automated reporting system uses RAG, indicators, and backtesting to generate standardized reports.

EnerGenius

Key Features

- ✓ Hybrid retrieval: BM25 + vectors
- ✓ Backtesting: custom functions
- ✓ Indicators: built-in signals
- ✓ Two-agent reporting: content → HTML



Solution Architecture

UI: Streamlit



Document processing: Docstring



Embeddings: Nomic Embed

Vector DB: Weaviate

Hybrid search: BM25 + Vector

Orchestration: LangChain

LLMs: Gemini (main) + local GPT-20B (optional)



BM25.com



How it's used?

- 1 select dataset/market
- 2 run indicators + backtesting
- 3 query knowledge through RAG search
- 4 generate a final report (text + HTML)

*The system demonstrates an automated reporting workflow enhanced with **RAG** (hybrid retrieval in Weaviate) and **LLM-based agents**. It improves the speed and consistency of analysis while producing shareable HTML outputs.*