

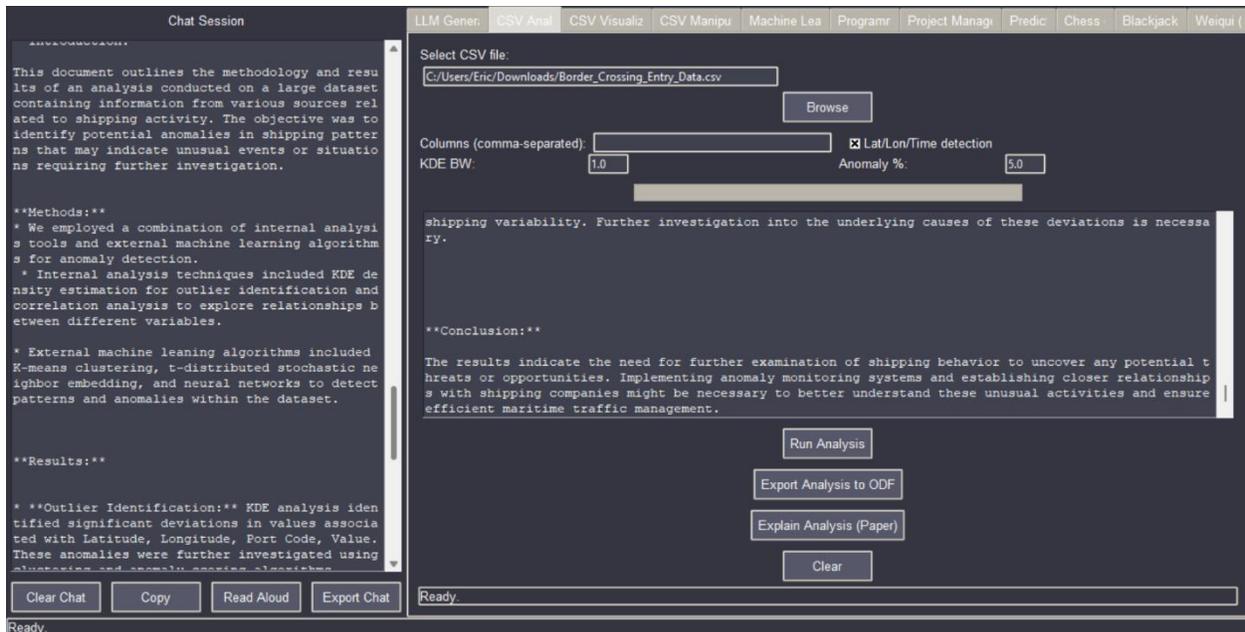
## SARAHAI-LLM v11.93 — Datasheet

### System for Adaptive Reasoning and Anomaly-aware Hybrid Artificial Intelligence

#### Overview

SARAHAI-LLM is a self-contained, offline-capable intelligence engine combining large language model (LLM) reasoning with data science, anomaly detection, simulation, and scientific report generation. Built for analysts, researchers, operators, and decision-makers, it enables end-to-end insight—without cloud dependency or internet access.

SARAHAI-LLM delivers integrated Pattern-of-Life (PoLA) analysis, approximate kernel density estimation (KDE), and narrative generation—all in a single executable file.



#### Key Features

##### Capability

Local LLM Reasoning

##### Description

Embedded support for HuggingFace-compatible models (e.g., Gemma, LLaMA)



<b>Capability</b>	<b>Description</b>
<b>Offline Execution</b>	<b>Runs fully disconnected; no server, no cloud, no API calls required</b>
<b>PoLA + KDE Anomaly Detection</b>	<b>Patented statistical pattern detection with multi-threaded aggregators</b>
<b>Scientific Report Generation</b>	<b>Chain-of-thought prompting outputs full-text papers with visuals</b>
<b>Monte Carlo Simulation</b>	<b>Built-in engine for risk modeling and AI-based scenario analysis</b>
<b>Data Visualization</b>	<b>High-resolution matplotlib plots and .ODP export for presentation use</b>
<b>Machine Learning Toolkit</b>	<b>Local training (classification, regression, clustering) with LLM summaries</b>
<b>Git + Task Management</b>	<b>Built-in version control + checklist tracking for projects</b>
<b>Python Code Console</b>	<b>Embedded scripting with output console and variable persistence</b>
<b>Multimodal UI Modules</b>	<b>Includes Chess, Go (Weiqi), Blackjack for agentic reasoning demos</b>
<b>Accessibility / Read-Aloud</b>	<b>Text-to-speech support via pyttsx3</b>
<b>Deployment Simplicity</b>	<b>Packaged as a single .py or .exe (PyInstaller-ready); no external server</b>

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## **Technical Specifications**

<b>Attribute</b>	<b>Details</b>
<b>Platform</b>	<b>Python 3.9+, Windows/Linux/macOS</b>
<b>LLM Compatibility</b>	<b>HuggingFace Transformers (e.g., Gemma, LLaMA, Mistral)</b>



<b>Attribute</b>	<b>Details</b>
<b>Memory Modes</b>	<b>Supports CPU, 8-bit, 4-bit, and TF32 GPU inference</b>
<b>Visualization Export</b>	<b>PNG (high-res), ODP (OpenDocument Presentation)</b>
<b>Scientific Output</b>	<b>Markdown, JSON, and full-text scientific-style PDFs</b>
<b>Interfaces</b>	<b>CLI, GUI (Tkinter), scriptable APIs</b>
<b>Security Model</b>	<b>Air-gap / disconnected / edge-deployable</b>
<b>Licensing</b>	<b>Enterprise or Patent-based license (U.S. Patent No. 11,308,384)</b>

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### **Ideal Use Cases**

- **Defense & Intelligence (offline, air-gapped analytics)**
  - **Scientific Research (anomaly detection, simulations)**
  - **Government & Public Sector (privacy-focused AI workflows)**
  - **Policy Labs / Think Tanks (scenario modeling & reporting)**
  - **Academic Institutions (teaching AI, simulation, and PoLA methods)**
  - **Critical Infrastructure (edge analytics, event detection)**
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### **Competitive Advantages**

#### **Compared To Advantage**

<b>ChatGPT</b>	<b>Offline operation, explainable analytics, KDE anomaly</b>
<b>Palantir</b>	<b>Lightweight, deployable in minutes, no cloud dependency</b>
<b>Power BI</b>	<b>Embedded AI + pattern reasoning, not just dashboards</b>

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### **Package Includes**



- **SARAHAI-LLMv11.93.py – single-file engine (PyInstaller-compatible)**
  - **Examples: PoLA, Monte Carlo, LLM report generation**
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## Contact & Licensing

**For licensing, deployment, or integration inquiries:  
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