G.H.O.S.T.

PRODUCT INFO

DOCUMENTATION FOR CYPHER'S ON PREMISE
AI PLATFORM

CYPHER

CONTENTS

GHOST

GUIDED
HEURISTIC
ON-PREM
SUPPORT &
TROUBLESHOOTING

INTRODUCTION

What's the true cost of leaving your biggest problems unsolved?
It's more than just lost time—it's lost money. Missed deadlines, inefficient processes, and overburdened teams are quietly draining your budget. Every delayed mission, every bottleneck in decision-making, and every extra hour your workforce puts in is costing you millions in lost productivity and resources.

How much longer can you afford to bleed money by maintaining the status quo? Enter...GHOST.

For a fraction of what you're losing by doing nothing, you could be leveraging GHOST. The solution designed to stop the financial drain, optimize your operations, and give your teams the tools to succeed.

EXECUTIVE SUMMARY

GH.O.S.T. offers an AI solution that is easily customizable, enabling users to benefit from tailored solutions for various tasks, such as analysis, standard operating procedures (SOPs), summarization, and explanations. The platform includes a customizable "problem solver" feature that allows users to input their problems in an unstructured format, and receive a structured, clarified problem statement, multiple solutions and their benefits, and challenges. Dive deeper into each solution and G.H.O.S.T. will dive right in with you.

In the rapidly evolving landscape of artificial intelligence (AI), the ability to deploy, customize, and integrate AI solutions efficiently and securely is critical. G.H.O.S.T. (Guided-Heuristic On-prem Support & Troubleshooting) is an innovative on-premises AI platform designed to meet these needs. With G.H.O.S.T., users can harness the power of AI without the need for specialized prompt engineering skills. This document outlines the core features, benefits, and applications of G.H.O.S.T., showcasing its unique value proposition.

> Unlike other AI offerings, G.H.O.S.T. ensures seamless integration with existing technologies and workflows while providing ongoing support and customization to suit user requirements.

WHY G.H.O.S.T. ?

" **G**.H.O.S.T. is a specialized platform focused on addressing crucial challenges with national and global impact through tailored proprietary AI engineering. solutions. This capability is essential for organizations in sensitive sectors like finance, healthcare, defense, and government, where data protection, regulatory adherence, and security are top priorities. "

Enhanced Data Security: Complete control over data processing in a secure local environment, reducing risks of breaches.

Full Customization: Flexibility to tailor AI models and applications to fit specific organizational needs.

Operational Independence: Uninterrupted performance without relying on external factors like internet connectivity.

Compliance Adherence: Maintain regulatory compliance by keeping sensitive data in-house.

Seamless Integration: Works harmoniously with existing tools and technologies for improved productivity.

KEY FEATURES & BENEFITS

Our platform's unparalleled customization capabilities allow you to tackle a wide range of tasks efficiently and effectively. Here are some use cases that demonstrate how our application can revolutionize your business processes:

Custom AI

Custom AI capabilities allow for further customization within the platform to meet specific organizational needs, facilitated by our support team:

- On-premises Training: We'll fine-tune models within your secure environment on proprietary data.
- Mission or Compartment Specific Applications: Some of our customers will prefer to have individual applications that perform specific functions, such as a Network Engineering Expert AI – have your existing network engineers significantly increase their output by automating a large portion of their daily work tasks.

Efficient SOP Creation
Simplify your operational workflow by generating detailed Standard Operating Procedures tailored to your processes with minimal input.

Strategic Business Problem Solving
Overcome business challenges by utilizing our AI to outline a strategic problem-solving approach, providing you with actionable steps and solutions.

Mission Sensitive SOP Design
Custom LLM and multistep workflows designed to tackle mission-sensitive challenges while automating SOP creation.

Streamlined Customer Support Ticket Analysis
Improve your support team's efficiency by categorizing and summarizing customer queries, allowing for quick and accurate responses.

Accurate Software Development Specifications
Streamline your development process with detailed specifications and user stories tailored to your project requirements.

Problem Solver

The "problem solver" feature simplifies complex problem-solving tasks by providing:

- Structured clarification of the problem.
- Multiple standardized, and creative solutions with detailed pros and cons for each option.
- The option to continue exploring a solution further, including step by step instructions on how to pursue the option, and other considerations.

Universal AI

*Universal AI offers **out-of-the-box** functionality, assisting with a wide range of tasks from day one:*

- Email Composition: Intelligently, and instantly generate emails with specific audiences in mind.
- Document Preparation and Management: Create reports, templates, and manage data extraction and analysis.
- Summarization: Extract key points from lengthy documents, email chains.

Complete Training Program Outlines
Enhance your training initiatives with comprehensive program outlines designed to meet your specific objectives.

User-Friendly Technical Support Documentation
Improve user experience with comprehensive manuals and support documents generated from your technical product.

Comprehensive Crisis Management Plans
Prepare for potential crises with detailed management plans generated from your scenario inputs.

Government RFI/RFP Requirements Generation
Provide government officials with capabilities to accelerate life cycle acquisition process.

Summarized Performance Review Report
Simplify employee evaluations with summarized performance review reports generated from your performance data.

Background

In many industries today, professionals are turning to AI to automate repetitive tasks, enhance productivity, and streamline complex workflows. However, using AI effectively has often required specialized knowledge in prompt engineering—the art of crafting precise instructions to guide AI systems. For many users, this added layer of technical complexity is a barrier to using AI efficiently, as it demands time and expertise to learn.

The Challenge

Traditionally, to leverage AI tools, users needed to spend significant time crafting detailed and accurate prompts. Whether automating report generation, quality checks, or document review, users had to ensure they gave the AI the right instructions. This need for prompt engineering slowed down the adoption of AI, as it required either hiring AI experts or dedicating time to learning technical skills that detracted from core work responsibilities.

The Solution

G.H.O.S.T. eliminates the need for prompt engineering altogether. By offering pre-built prompts and automated workflows, users can engage with the AI without ever needing to learn how to craft prompts.

> *No need for prompt engineering skills!*

Multi-Step Automated Workflows

The G.H.O.S.T. platform integrates multi-step automated workflows, designed to replace manual human processes and streamline complex operational tasks. These workflows guide the AI through a series of stages, simulating human actions such as document ingestion, drafting, quality control (QC), and higher-level reviews by subject matter experts (SMEs).

In this setup, the AI acts as an orchestrator, intelligently moving tasks between different roles, ensuring that each step is completed in sequence and according to predefined standards. For example, a document may first be ingested into the system, then a draft is generated by one team, followed by a quality assurance process, and finally reviewed by an SME. These workflows speed up traditionally slow processes, reduce errors, and free up employees to focus on higher-priority work.

The platform's flexibility allows businesses to customize workflows to their unique needs, ensuring that every department—from drafting to expert review—works together seamlessly, without the delays of manual handovers.

This functionality makes G.H.O.S.T. indispensable for organizations looking to enhance efficiency, accuracy, and collaboration in their everyday operations.

Automated Workflows: Streamline complex tasks with multi-step automation.

Human-like Orchestration: AI mimics human processes like drafting and quality control.

Error Reduction: Minimize manual errors and ensure high accuracy.

Boost Efficiency: Free up employees for higher-priority tasks.

Flexible Integration: Tailor workflows to meet your organization's unique needs.

> *Imagine a fast-growing business struggling to keep up with the increasing demand for accuracy and efficiency across departments. With G.H.O.S.T., this business seamlessly integrates automated workflows, allowing AI to handle repetitive, multi-step processes such as drafting reports and quality control checks. Errors are reduced, tasks are completed faster, and employees are freed up to focus on strategic priorities. By utilizing human-like orchestration, G.H.O.S.T. empowers teams to collaborate effortlessly and maintain high productivity, all while scaling operations with ease.*

DEPLOYMENT & SUPPORT

We ensure the G.H.O.S.T. platform is not only delivered but also integrated into the customer's existing workflows. With Cypher support services, the commitment may include:

Ongoing Support
Continuous customization and fine-tuning to meet evolving needs.

Training and Development
Assisting in the training of models and developing specific functionalities as required by the customer.

Security and Privacy
G.H.O.S.T. operates entirely on-premises, ensuring that sensitive data is never exposed to external networks. This model guarantees maximum security and privacy for all operations.

G H.O.S.T. utilizes multiple frameworks to provide its capabilities, including a web-based front-end (html, JavaScript), Python scripts, as well as docker containers to run portions of its capability. Currently, it supports Windows environments, however it's being developed to support Linux based operating systems.
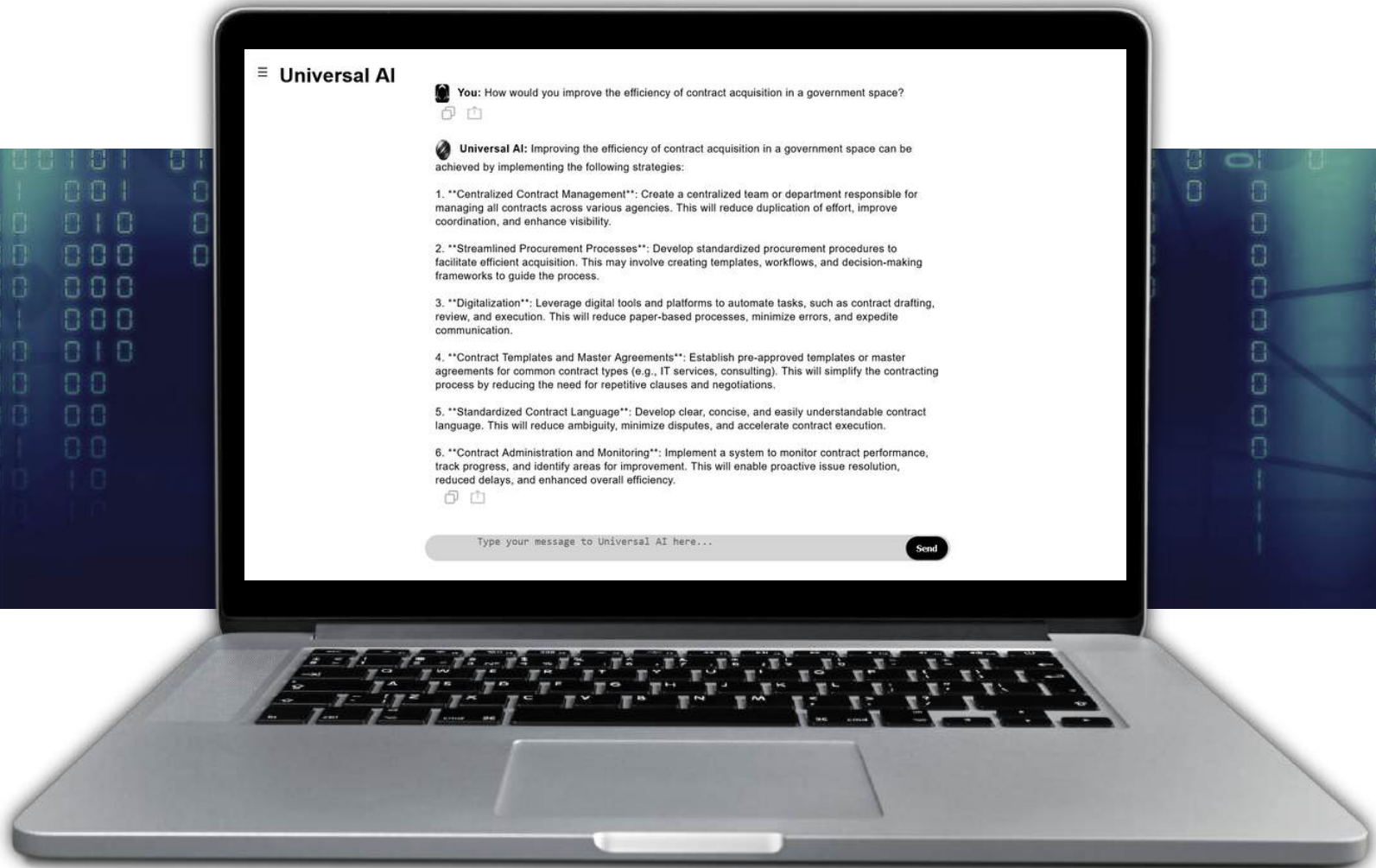
OS Requirements:
- Windows or Linux

Minimum Hardware Requirements:
- Minimum of 48GB of Nvidia based GPU memory
- 128GB system memory
- 40GB disk space
- http/https access to the machine it's being hosted on for inferencing purposes

INTERFACE

≡ Universal AI

You: How would you improve the efficiency of contract acquisition in a government space?

Universal AI: Improving the efficiency of contract acquisition in a government space can be achieved by implementing the following strategies:

1. **Centralized Contract Management**: Create a centralized team or department responsible for managing all contracts across various agencies. This will reduce duplication of effort, improve coordination, and enhance visibility.

2. **Streamlined Procurement Processes**: Develop standardized procurement procedures to facilitate efficient acquisition. This may involve creating templates, workflows, and decision-making frameworks to guide the process.

3. **Digitalization**: Leverage digital tools and platforms to automate tasks, such as contract drafting, review, and execution. This will reduce paper-based processes, minimize errors, and expedite communication.

4. **Contract Templates and Master Agreements**: Establish pre-approved templates or master agreements for common contract types (e.g., IT services, consulting). This will simplify the contracting process by reducing the need for repetitive clauses and negotiations.

5. **Standardized Contract Language**: Develop clear, concise, and easily understandable contract language. This will reduce ambiguity, minimize disputes, and accelerate contract execution.

6. **Contract Administration and Monitoring**: Implement a system to monitor contract performance, track progress, and identify areas for improvement. This will enable proactive issue resolution, reduced delays, and enhanced overall efficiency.

Type your message to Universal AI here...   Send

12   AI COMPARISON CHART

FEATURES AND SUPPORT	G.H.O.S.T.	OPEN AI	SCALE AI	IBM WATSON	CAMO GPT
Predictable Pricing	✔	—	—	—	—
Classified On-Prem Support	✔	—	✔	✔	—
Fully Cleared Personnel	✔	—	✔	✔	✔
Out of Box Air Gapped Capability	✔	—	✔	✔	—
Data Privacy Compliance	✔	✔	✔	✔	✔
Exportable Docs (PDF, etc.)	✔	✔	—	—	—
Automated Workflow	✔	—	—	—	—
Cost Efficient Fine Tuning	✔	—	—	—	—
Real Time Processing	✔	✔	✔	✔	✔
Universal AI/LLM	✔	—	—	—	—
Rapid Integration	✔	—	—	—	—
Life Cycle End-to-End Support	✔	—	—	—	—

CONCLUSION

G.H.O.S.T. represents a significant advancement in on-premises AI platforms, offering unparalleled customization, integration, and support. By enabling users to harness the power of AI without the need for specialized skills, G.H.O.S.T. is poised to revolutionize the way organizations leverage AI technology. With ongoing support and continuous innovation, Cypher is committed to helping customers achieve their operational goals efficiently and securely.

"G.H.O.S.T. is only limited by your imagination."

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