IntePros Federal

CELIOS.AI

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CELIOS.AI for Training and Learning Management

A purpose-built AI platform designed to augment in-person and virtual training, generate accurate courseware and curriculum, and develop custom training plans tailored to customer needs.

Features & Benefits

Reasoning-enabled generative AI model capable of emulating human-like decision-making by showing its logical process when generating outputs

Storage is optimized using manicured, domain-specific training data and streamlined data processing

Small Language Models (SLMs) are trained on curated datasets derived from policies, SOPs, historical data, & regulatory guidance, enabling highly specialized, context-aware outputs tailored to each customer's use case

Initial Model Training occurs on GPU-accelerated infrastructure to ensure model integrity, while most inference tasks operate efficiently on CPU, significantly lowering the compute footprint

Reduce costs and increase accuracy, we use a localized baseline SLM – it is not an API call back to a third-party LLM trained on everything on the World Wide Web

Continuous improvements through corrective repairs performed in real time with human-in-the-loop reinforcement learning through human feedback (RLHF)

Client Overview

» A global standard bearer in leadership training and change management, our client works across various sectors including government organizations, Fortune 500 multinationals, healthcare providers, energy companies, and technology firms. These clients are united by a shared commitment to effective results at speed and scale when driving change in their organizations.

» Much of their training focuses on the impacts of technology in our rapidly changing world. As a partner in the evolution of global knowledge sharing, they understand the benefits of adopting new technology and started experimenting with Artificial Intelligence (AI). However, there were no products on the market that met performance expectations or security requirements for their patented service offerings.

Challenge

» **Training and Knowledge Management:** Although the client delivered robust training programs worldwide, they faced challenges in scaling the impact of these initiatives. Their Learning Management System (LMS) was not integrated with content creation or training delivery platforms, requiring subject matter experts (SMEs) to manually update materials.

» **Legacy Technology:** variety of customers and industries demanded customization of case studies and exercises to make training more relevant to the audience. Certified trainers needed a unified digital platform that could provide personalized reinforcement and continuous support for instructors and trainees across concurrent sessions.

» **Data Security & Privacy:** client's data and training materials are proprietary and not publicly available. They could not accept the risk of exposing their intellectual property to unlicensed individuals.

» **Specialized Subject Matter:** the topics and concepts taught by our client are very specialized, having been developed over five decades in academia and corporate leadership. Questions and requests from students and community require SME analysis and response. General Intelligence AI models were incapable of reproducing accurate and relevant content and responses to queries.

IntePros Federal built **Celios.AI**, the next-generation AI platform purpose-built for customers unwilling to compromise their data.

Accelerates Decision-Making

Supports Sensitive Workflows

Automates Document Analysis

Enhances Human Judgment

Bridges Data Silos

Improves with Expert Feedback

Supports Training and Readiness

Solution

» **Private Instance of Celios.AI:** deployed our containerized GenAI platform to a secure cloud environment built for AI workflows that is only accessible to our client. No third-party tools or API wrappers in solution = no data leakage.

» **Subject Matter Expertise:** Our custom reasoning small language model is trained exclusively on client data and courseware to achieve relevant contextual inference and accuracy above 95% with referenceable sources.

» **Multi-modal & Mult-Agent:** Celios.AI processes and produces common file types and segments data in workspaces for specialized, purpose-built agents, i.e., Training Coach, Instructor Aid, Course Developer

» **Native User Experience (UI):** Celios.AI frontend was customized to client branding and integrated into the training framework to enhance instructor courseware tailoring and classroom effectiveness.

» **Personalized Reinforcement:** using curated training data from the client, Celios provides participants with personalized follow-up interactions and guided simulations that reinforce key concepts from each segment.

» **Ongoing Support:** The AI-driven coaching layer ensures employees receive ongoing support in applying principles across different teams and geographies. The platform maps concepts to real-world workflows, dashboards, and collaboration tools, transforming abstract ideas into actionable behaviors.

» **Data Encryption:** All data in Celios.AI in transit and at rest is encrypted using industry-standard protocols, e.g., AES-256, TLS 1.3.

» **Access Control:** Celios.AI uses Role-based access controls (RBAC) and multifactor authentication (MFA) to ensure only authorized users access sensitive AI systems and data.

» **Model Confidentiality:** Trained AI models and associated parameters are encrypted to protect against reverse engineering and unauthorized access.

» **Audit Logging:** Full logging and audit trails are maintained for all data access, model use, and administrative actions.

» **Anonymization & De-identification:** Personally identifiable information (PII) is removed or obfuscated prior to training and inference.

» **Compliance Alignment:** AI solutions adhere to relevant regulations such as GDPR, HIPAA, CCPA, & FISMA/NIST standards.

» **Injection Prevention:** Celios.AI prevents an attacker from "injecting" malicious code or commands into a system to manipulate how a program behaves.

Impact

» **Speed:** what used to take the client weeks or months to produce and update across its knowledgebase is accomplished in days and hours. Students get instant feedback and accurate answers that are standardized without having to wait for one of our client's SMEs to respond, increasing customer retention.

» **Sustainable Change Initiatives:** Through its participatory feedback model, end users can refine training scenarios and provide contextual input, creating a continuous improvement loop that benefits both students and instructors.

» **Strategic Companion:** Celios.AI has become a strategic companion to the client's programs, making change initiatives more measurable, sustainable, and aligned with modern digital transformation efforts.