

Infotrend Corelnsights

AI & LLM Service Offering

Infotrend CoreExtract Al

AI & LLM Service Offering

Infotrend CoreAl

AI Development Toolkit

Infotrend CoreInfra

Automated DevSecOps Infrastructure





UNIFIED ECOSYSTEM & OFFERING

Combining Infotrend Corelnsights, CoreAl, CoreInfra, and CoreExtract AI creates a fully integrated AI and data management platform tailored to federal needs.



SCALABLE & FLEXIBLE SOLUTIONS

Provides a modular and adaptable platform that scales with organizational needs, offering seamless integration with existing systems in the cloud.



END-TO-END DATA MANAGEMENT

CoreSuite offers a complete solution from data ingestion and extraction to advanced analysis and deployment, enabling organizations to manage their data lifecycle seamlessly.



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TURNING DOCUMENTS INTO DECISIONS

CoreInsights is a powerful Large Language Model (LLM) designed to revolutionize how organizations analyze and gain insights from vast amounts of documents. With the ability to handle thousands of documents through easy uploads or drag-and-drop functionality, CoreInsights rapidly delivers detailed summaries and cross-document analysis, enabling users to uncover valuable insights and make informed decisions quickly.



Streamlined Workflows: Enables users to access CoreInsights' advanced analysis and summarization directly within their preferred platforms, minimizing the need to switch between tools.



Real-Time Analysis: Instantly analyzes documents as they are uploaded, delivering immediate insights to accelerate project timelines.



Enhanced Collaboration: Centralizes insights and document data, promoting better communication and teamwork across departments.



Improved Efficiency: Automates file handling and analysis, allowing professionals to focus on strategic and high-impact activities.



Comprehensive Insights: Combines document management with CoreInsights' powerful cross-document analysis to effectively surface patterns, trends, and actionable intelligence.

Accelerated Decision-Making: Gain rapid insights from large volumes of documents, allowing teams to make informed decisions faster.



Enhanced Productivity: Reduce the time spent on manual document review and analysis, freeing up resources for higher-value tasks.



Improved Accuracy: Leverage advanced AI to uncover patterns and insights that may be missed through traditional analysis methods.



Seamless Integration: Works with existing platforms and workflows, enhancing productivity without disrupting established processes.



Data-Driven Insights: Provides cross-document analysis that identifies trends, correlations, and key information to support strategic initiatives.















USING COMPUTER VISION TO EXTRACT DATA

CoreExtract AI specializes in high-accuracy extraction of key data elements from complex and inconsistent document formats, including graphical objects like tables, charts, and figures. Designed for seamless operation across secure and offline environments, this solution ensures that critical data is extracted with precision, regardless of document quality.



High-Fidelity Extraction: Advanced AI/ML models accurately detect and extract key elements from both structured and unstructured documents.



Graphical Object Recognition: Tailored to extract data from tables, charts, and images, even in degraded or low-quality scans.



Key Features

Robust Preprocessing: Automated noise reduction, image correction, and enhancement ensure optimal accuracy.



Scalable Deployment: Operates efficiently in environments ranging from high-performance clusters to air-gapped systems.



Modular Design: Adaptable components for seamless updates and integration into existing workflows.

Enhanced Data Accuracy: Reliably extracts high-quality data to reduce errors and manual intervention.



Time and Resource Savings: Automates traditionally laborintensive document processing tasks.



Versatility Across Formats: Handles diverse document types, including scanned PDFs, TIFFs, and JPEGs.



Scalable and Secure: Ensures performance in both resource-rich and constrained environments while maintaining data security.



Immediate Actionability: Delivers structured data outputs in JSON, XML, or other formats for integration into downstream systems.



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ACCELERATE AI WITH A READY-TO-USE ML TOOLKIT

CoreAl is a Docker-based solution that provides pre-configured environments for machine learning, computer vision, and natural language processing development. It enables fast prototyping, testing, and deployment for machine learning practitioners and developers.



Comprehensive Pre-Built Containers: CoreAl offers Dockerfiles that include CUDA, TensorFlow, PyTorch, and OpenCV, creating an all-in-one solution for Al development. This avoids the hassle of manual installations and potential compatibility issues.



Multi-GPU Support with CUDA: CoreAl is optimized for GPU acceleration, enabling developers to harness the power of NVIDIA GPUs for faster training and inference of machine learning models, which is particularly useful for large datasets and complex neural networks.



Support for Leading Al Frameworks: CoreAl integrates with both TensorFlow and PyTorch, providing flexibility for developers to use their preferred machine learning libraries.



Automated Container Builds: Using Dockerfiles, CoreAl automates the build process for development environments. This ensures that the containers are always up-to-date with the latest versions of libraries and tools, simplifying maintenance.



Modular Design for Customization: Developers can modify the Dockerfiles to include specific versions of libraries or additional tools, allowing customization to match specific project needs or organizational standards.

Accelerated Al Development: By offering pre-configured Docker containers with key Al libraries, CoreAl eliminates the time-consuming setup process, allowing developers to focus immediately on model development and experimentation.



Cross Platform Compatibility: Docker containers create a consistent development environment, which reduces the "it works on my machine" problem, enabling seamless collaboration across development teams.



Resource Optimization: The integration with NVIDIA CUDA allows for efficient use of GPU resources, significantly improving the performance of computationally intensive machine learning, computer vision, and natural language processing tasks.



Benefits

Flexibility and Modularity: Developers can easily switch between frameworks (e.g., TensorFlow and PyTorch) within the same containerized environment, supporting diverse project requirements and avoiding dependency conflicts.



Scalable Deployments: The ability to containerize entire AI workflows ensures that models and applications can be deployed to cloud environments or on-premise infrastructure with minimal effort and maximum reliability.









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UNIFIED DEVELOPMENT AND DEPLOYMENT SOLUTION

CoreInfra is a comprehensive development and deployment framework that leverages automation, containerization, and multi-cloud capabilities to streamline project workflows. This infrastructure accelerates delivery for diverse projects, offering a scalable and adaptable solution for modern development and operational needs.



Unified CI/CD with GitHub Actions: Automates code validation, testing, and deployment with seamless workflows.



Containerization & Orchestration: Uses Docker for image creation and Kubernetes for robust and scalable deployments.



Flux for Continuous Deployment: Automatically monitors Docker image updates and triggers redeployment in Kubernetes clusters



Comprehensive Testing: GitHub Actions handles unit, integration, and security checks for rigorous code quality validation.



Post-Deployment Monitoring: Ensures deployment success with automated health checks and rollback capabilities.

Streamlined Processes: Single CI/CD tool simplifies workflows and reduces overhead.



Scalable Architecture: Supports projects of all sizes with dynamic scaling across cloud platforms.



Enhanced Security: Integrated multi-cloud management with robust compliance monitoring.



Benefits

Increased Developer Productivity: Automates repetitive tasks, enabling teams to focus on innovation.



Adaptability Across Projects: Modular design supports diverse project types and changing requirements.





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