NTT Data AI Edge Platform

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CONTEXT

NTT Data unveiled its new Edge AI platform, which aims to accelerate IT/OT convergence by bringing AI processing to the edge. The fully managed solution enables real-time decisions, enhances operational efficiencies, and deploys secure AI applications across various industries, driving the adoption of advanced Industry 4.0 technologies.

The new platform addresses the growing need for localized, real-time decision-making in industries where large language models (LLMs) and generative AI are impractical.

NTT DATA EDGE AI PLATFORM

NTT Data's new Edge AI platform is designed to enhance IT/OT convergence by bringing AI processing capabilities to the edge. It's a fully managed solution that enables real-time decision-making, improves operational efficiency, and ensures secure AI application deployment across various industries.

Key Features of the new platform include:

1. **Real-Time AI Processing:** The platform processes massive data sets on compact computing platforms using smaller, efficient machine learning models to deliver real-time AI insights, addressing the demand for localized decision-making.
2. **Comprehensive Managed Service:** The all-inclusive platform includes systems, tools, and capabilities required for AI at the edge, covering data discovery, collection, integration, computational power, seamless connectivity, and AI model management.
3. **Industry-Specific Solutions:** The platform supports industry-specific requirements by leveraging cost-effective, lightweight AI models. It performs tasks such as enhancing safety, operational efficiency, predictive maintenance, and energy optimization.

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4. **Enhanced Security and Management:** It offers a unified view and management of devices, sensors, and assets, promoting vulnerability patching and overall device security through insights into firmware versions.

ANALYSIS

The need for efficient, real-time data processing at the edge has become paramount in an environment where the volume of data generated by IoT devices is exponentially increasing. NTT Data's new Edge AI platform is positioned to meet this need by providing a comprehensive, managed service that integrates AI processing directly at the edge.

The new platform addresses a critical need in industries where real-time decision-making is paramount. By processing data at the edge—where it is generated—this platform eliminates the latency and bandwidth constraints typically associated with cloud-based AI solutions. This capability is crucial for sectors like manufacturing and energy, where timely insights can lead to significant operational efficiencies and cost savings.

This enables several strategic benefits for NTT Data customers:

1. Operational Efficiency:
    - By processing data where it is generated, the Edge AI platform reduces latency and bandwidth usage, leading to enhanced operational efficiencies and real-time analytics.
2. AI Democratization:
    - The platform's use of task-specific small AI models makes it easier for enterprises to introduce AI capabilities without extensive infrastructure changes, thus democratizing AI adoption.
3. Cost Optimization:
    - Predictive maintenance and energy optimization features can lead to significant cost savings by reducing downtime and improving energy efficiency, thereby lowering operational costs and CO2 emissions.
4. Security and Compliance:
    - The platform's robust security features, including auto-discovery of assets and comprehensive diagnostics, ensure that enterprises can effectively manage and mitigate security risks.

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NTT Data's Edge AI platform is a compelling offering that enables a robust, managed solution that addresses the need for real-time, localized AI processing. With a comprehensive suite of features tailored to industry-specific needs and backed by a significant market opportunity, NTT Data is well-positioned to lead the adoption of Industry 4.0 technologies.

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