INTEL Layer

Toolset for optimizing machine learning and artificial intelligence models.

Open-source, integrated AI-as-a-Service (AIaaS) platform that facilitates collaborative and federated learning across diverse devices and users within the edge-to-cloud continuum. This approach directly addresses, inefficient resource allocation, error-prone manual processes, unexpected downtime, and a lack of actionable, real-time insights.

Key Benefits:

- Forecasts and models to support smart workload orchestration: It provides forecasts used by the ICOS MetaOS to manage and optimize workloads across the continuum.
- AI performance monitoring: It provides robust AIOps capabilities, including experiment tracking and model management, allowing users to make informed decisions and ensure high levels of QoS/QoE.
- Trustworthy AI: Promotes trustworthy AI practices. Its federated intelligence support for the MetaOS keeps sensitive data localized on edge devices, enhancing privacy and security. It also integrates frameworks for explainable AI (XAI) in its experiment tracking feature to provide transparency and accountability.
- Model reusability and efficiency: Empowers users to reuse pre-trained models and supports model compression techniques for enhanced efficiency on resource-constrained edge devices.
- Edge-to-Cloud end-to-end solution: Unlike competitors who offer partial solutions, it provides a fully integrated suit of tools for data processing, model training, task offloading, and trustworthiness, specifically designed for the continuum.