AI Studio

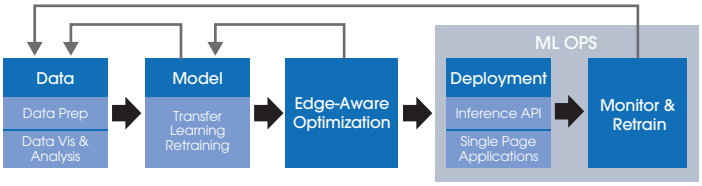
Unleashing AI for Business Technologist

PRODUCT BRIEF

Build, deploy and manage edge AI Apps in single code-free workflow

Blaize® AI Studio removes edge AI development constraints with a complete, innovative software suite — the industry's first end-to-end, no-code open software platform that transforms productivity of the entire edge AI application development and Machine Learning Operations (MLOps) workflow.

AI Studio High-Level Development Workflow



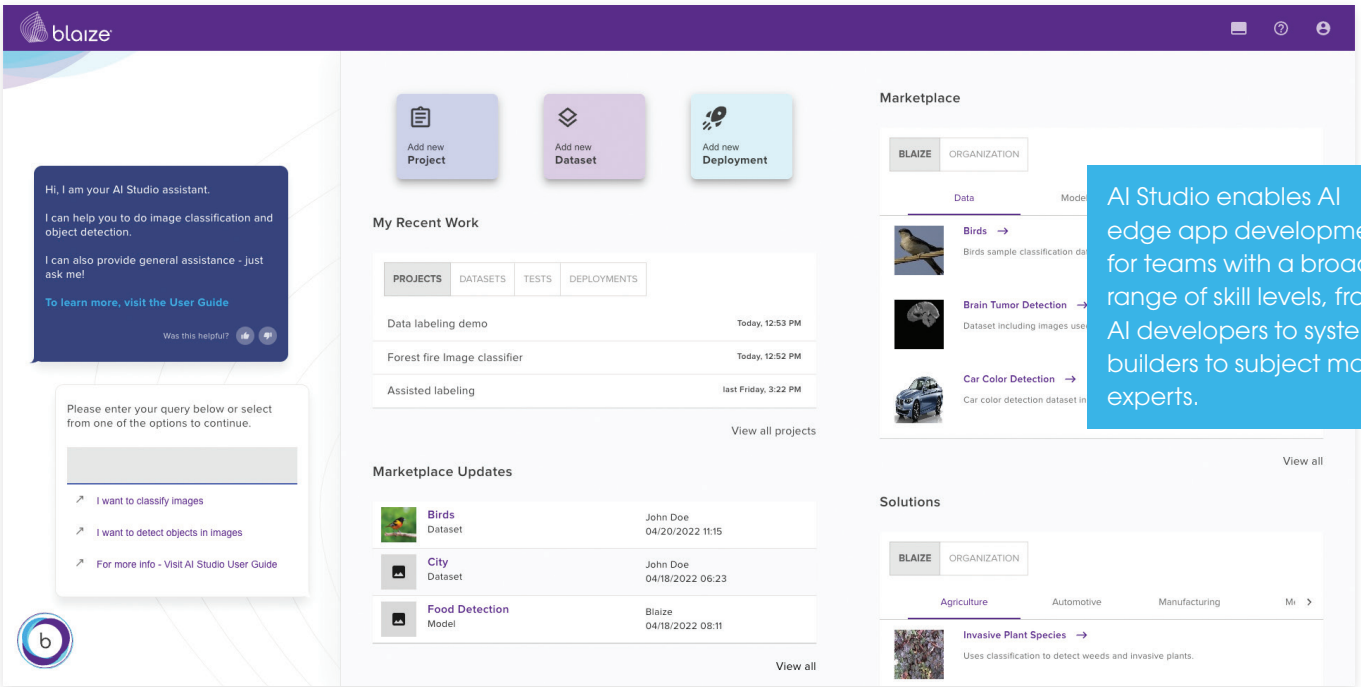
Comprehensive Platform for Edge AI Application Development

AI Studio increases productivity by simplifying and automating traditional AI application creation with a user-friendly and assistive interface for building end-to-end solutions based on well-understood principles and best practices. Using microservices, containers, and Kubernetes on a cloud-native infrastructure, AI Studio is scalable and reliable for production systems.

Uncode & Unleash Your AI

Think It. Make it. Deploy it.

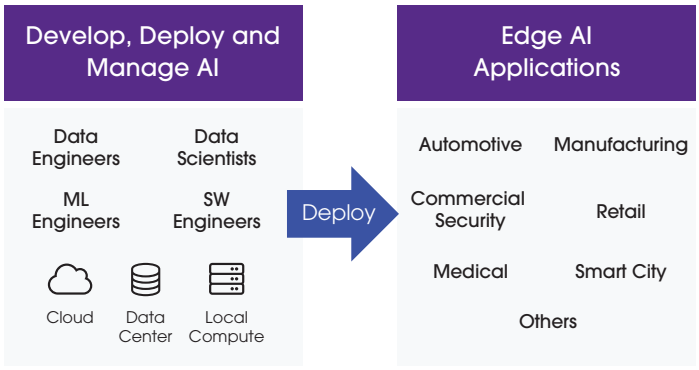
- Accelerate development and reduce time to market using **visual, no-code tools**
- Ground-breaking edge **MLOps/DevOps** features, model drift analysis, upgrades
- Tap expert knowledge-drive recommendation systems
- **Marketplace**, share datasets, models & solutions
- **Cloud and on-premises**, microservices architecture
- Prepare **custom training datasets** via built-in data labeling and annotation tool
- Boost modeling productivity via **transfer learning auto ML and pre-trained models**
- Achieve high performance through iterative model refinement, MLOPs, and AI Studio host
- **ONNX and OpenVX standards for user flexibility, broader adoption**
- Application testing on images and streaming input sources and comparing multiple versions



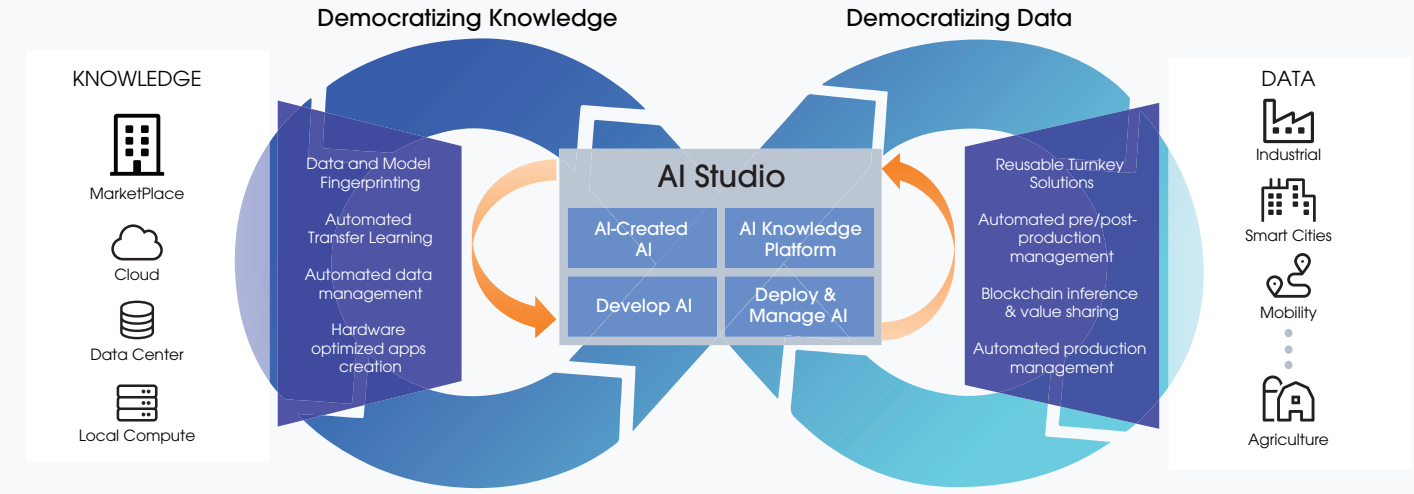
AI Studio enables AI edge app development for teams with a broad range of skill levels, from AI developers to system builders to subject matter experts.

AI For Everyone

Developing AI applications for edge computing today is a complex, multi-stage project that traditionally involves data scientists, machine learning professionals, and applications experts. The process demands extensive data gathering, model development, testing, and deployment optimization on a suitable edge inference platform. Current solutions for building edge AI applications are fractured, forcing developers to devise end-to-end workflows for edge AI application assembly. The result is poor user experience, low production-level quality, and high costs of putting AI solutions into production. AI Studio reduces the cost of entry and makes AI accessible for everyone else.



The Future of AI Deployment



AI Studio enabling iterative democratization of knowledge and data to improve, create and update models rapidly

MLOps and Data Drift

The rapid increase in sensors, and new compute capabilities such as the Blaize inference accelerators, are driving AI at the edge, creating more data from edge apps demanding low latency, real-time processing. Models and sensors must update frequently to track drift and to adapt to new situations, which is most effectively done close to the edge with learning based on local application data, meta data and learning multiple systems.

AI Studio enables this via AI knowledge based, AI MarketPlace and the ability to use AI to improve, create and update AI models.

> Tight coupling of the hardware and software enables dramatic reductions in deployment time, complexity, and cost.

AI Studio utilizes the fully programmable Blaize Graph Streaming Processor (GSP®) architecture, boosting efficiency in processing AI inference workloads. The Blaize AI Studio approach is poised to revolutionize consumer and industrial-grade development of AI-based applications.

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