

Backend.AI[®] FastTrack 3

Fast-track your AI Development
to the next level

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FastTrack 3

Product Overview

Backend.AI FastTrack 3:
End-to-end MLOps platform for enterprise AI/ML Operations

Today, enterprises face major obstacles deploying AI: complex infrastructure, underutilized expensive GPUs, and fragmented workflows delay real results. Teams struggle with compatibility, resource wastage, and slow collaboration across data science, engineering, and operations.

Backend.AI FastTrack 3 is an MLOps pipeline platform that defines and executes AI/ML workflows as DAGs (Directed Acyclic Graphs) based on Backend.AI clusters. It lets organizations run end-to-end AI pipelines in one unified environment. From data preparation to deployment and monitoring, Backend.AI FastTrack 3 enables efficient use of any GPU or accelerator, streamlines project delivery, and maximizes the ROI of your AI infrastructure.

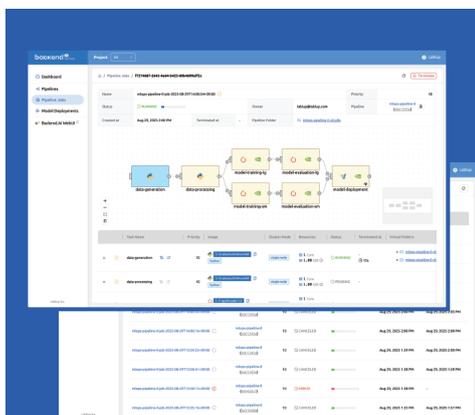
Lablup presents Backend.AI FastTrack 3, unifying AI development and operations to accelerate digital transformation.

Key Benefits

Complete end-to-end MLOps platform covering comprehensive AI development and deployment lifecycle

Optimized resource use and efficiency at both software and hardware levels for maximum

Approachable easiness tailored to varying levels of user expertise and preferences



Simplify Complex AI/ML Development Pipelines

Accelerating AI operations for enterprise and organizations

- Easy batch job pipeline construction
- Automated multi-node configuration for large model training
- Flexible execution environment setup and resource allocation per task
- Collaborative pipeline development & single-source deployment
- Secure external tunneling support for model serving
- Highly reusable pipeline templates

Customer Success Story



teamreboott accelerates domain-specific LLM fine-tuning with Backend.AI FastTrack 3

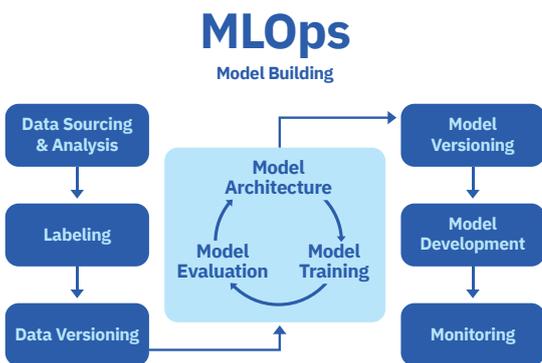
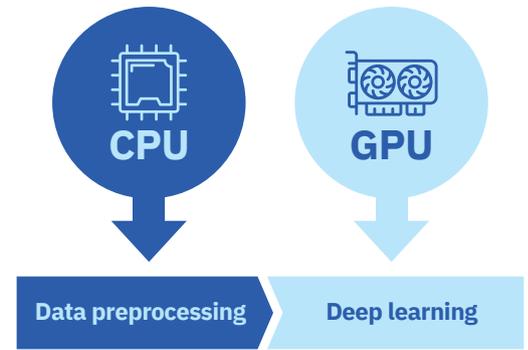
teamreboott Inc. and Lablup Inc. developed an HS Code(Harmonized System Code) recommendation system designed for trade applications. The system automatically suggests appropriate classification codes based on product descriptions, enhancing accuracy and compliance in customs workflows. The company leveraged Backend.AI FastTrack 3 to fine-tune its LLM using specialized datasets from the trade domain. The service is set to accelerate digital transformation (DX) in the global trade sector.

* Commercialized by the end of 2025

The perfect resource for every task

The magic of resource allocation

Backend.AI's flexible resource management and optimized scheduling power FastTrack 3's workflow execution capabilities. AI workload-specialized scheduler and Sokovan™ orchestrator efficiently allocate and manage different scales of computing resources for each pipeline task. Users can assign different resources to tasks based on their specific objectives. For instance, complex sequential data preprocessing workloads are best handled by CPUs, while high-performance GPUs should be allocated for the actual training phase. Enable efficient resource management and maximize end-to-end pipeline performance with Backend.AI FastTrack 3.



True end-to-end implementation

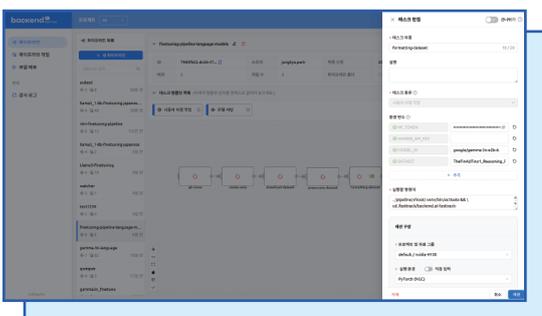
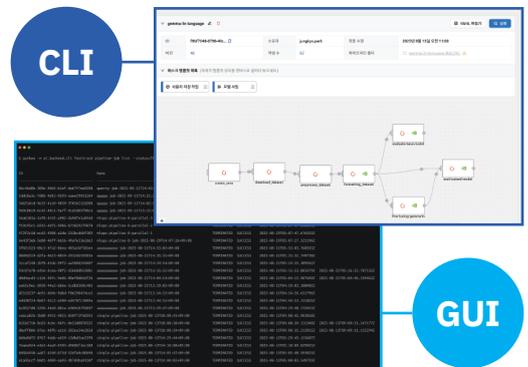
Pipeline operations from data preparation to deployment

Experience complete end-to-end MLOps platform that manages data preprocessing, training, validation, and model serving as one connected pipeline. The platform unifies scattered tasks into organized pipelines and projects, making enterprise MLOps environments trackable, reproducible, and fully automated. Seamless integration of native model serving feature enables immediate REST API deployment without additional transfer processes. Data scientists and engineers can focus on their core work, leaving complex infrastructure management behind.

Designed for everyone

Dual-mode interface: GUI and CLI for maximum flexibility

Introducing dual-mode GUI and CLI interfaces to meet varied user needs. Beginners can build pipelines through intuitive drag-and-drop web interfaces, experienced developers leverage CLI for automation and granular control to boost productivity. This flexible design enables users to start easily without lengthy learning periods and allows seamless migration from other MLOps platforms.



Built for multi-level customization

Variables that let you shape your environment your way

Backend.AI FastTrack 3 enables flexible environment variable management throughout pipeline execution. Pipeline-level variables apply across all tasks, while task-level variables provide precise control for individual tasks. One-shot variables offer temporary value redefinition without altering existing settings. All environment variables can be easily defined and injected through intuitive GUI and CLI, ensuring users achieve both consistency and convenience across different environments.



Learn more about Backend.AI FastTrack 3

Have questions?

Contact the Lablup team at bnd.ai/contact-us-en

