

ALIBABA CLOUD STARTUP CATALYST APPLICATION

DATARWIN

AI Agents for Financial Intelligence & Automation

Pitch Deck for Alibaba Cloud Startup Catalyst

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1. Problem & Solution

The Problem: Information Asymmetry

Retail investors are drowning in data but starving for insights. Existing tools are either too expensive (Bloomberg) or too shallow (YouTube news).

Key Pain Points

- > Latency: Market analysis still takes hours manually.
- > Complexity: Retail investors struggle with raw financial data.
- > Cost: High-end quant tools remain inaccessible.

Our Solution: Cloud-Native Autonomous AI Agents

DATARWIN is a multi-agent orchestration platform that automates the entire lifecycle of financial analysis and insight delivery.

Key Features

- > 29 Specialized Agents: US/KR Stocks, Crypto, Macro.
- > Real-time Analysis: <10 min latency from data to content.
- > Auto-Evolution: self-improving prompts via A/B testing.
- > Cloud Fit: GPU inference, real-time data, and delivery can scale on Alibaba Cloud.

2. Technical Architecture

Alibaba Cloud target architecture for production-scale financial intelligence.

Layer 1: Data Ingestion

High-frequency market pipeline

- > Sources: NASDAQ, KOSPI, Webhooks
- > Cloud Stack: EventBridge, Message Queue/Kafka, Log Service
- > Role: streaming, cleaning, market event triggers

Layer 2: AI Orchestration

The "Brain" (EP v5.0 Engine)

- > Model: multi-agent system (LLM based)
- > Deploy: PAI-EAS / Model Studio + Elastic GPU
- > Logic: CoT, reflection, prompt A/B testing
- > Scale: ACK / ECS autoscaling for agent workers

Layer 3: Content Gen & Delivery

OSMU distribution

- > Output: Video, Text, Audio, Charts
- > Storage/CDN: OSS + CDN for global delivery
- > Rendering: GPU-based encoding on Elastic GPU
- > Targets: YouTube, TikTok, Email, API

Codebase: Python 440k+ LOC | IP: 2 Patent Applications Pending (KR) | Cloud Target: Alibaba Cloud

3. Why Alibaba Cloud? (Technology Integration)

We aim to use Alibaba Cloud's cloud-native AI and data stack to turn DATARWIN from a local GPU MVP into a scalable financial intelligence service.

Elastic GPU Service

GPU resources for LLM inference, backtesting, and GPU video encoding. DATARWIN can scale expensive workloads on demand instead of pre-buying hardware.

PAI-EAS + Model Studio

Managed model deployment, online inference, scale-out, and monitoring for agent workloads; supports a cleaner path from MVP to production AI service.

Real-Time Data Stack

Realtime Compute for Apache Flink, AnalyticDB, OSS, and CDN create a production path for market streams, historical datasets, and global content delivery.

Target Alibaba Cloud Services:

Elastic GPU

PAI-EAS / Model Studio

Flink

AnalyticDB

OSS + CDN

ECS / ACK

4. Market Opportunity & Traction

Target Market

- > Primary: Retail investors (B2C) seeking institutional-grade insights.
- > Secondary: Boutique quant firms / financial creators (B2B) requiring automated research content.

Generative AI in Finance (CAGR 35.9%)

\$97.8B by 2030

Current deck market estimate.

Current Traction / Startup Catalyst Fit

- > Product: Fully functional MVP (Python/React).
- > Data Pipeline: Integrated with KR/US market data.
- > IP: 2 Patent Applications filed (Jan 2026).
- > Funding: Bootstrapped (\$10k self-funded).
- > Cloud Readiness: Containerized services for ECS/AKS + GPU migration.
- > Support Ask: Catalyst credits + technical support for inference, streaming data, and delivery.

Program reference: Alibaba Cloud Startup Catalyst offers cloud resources and business support for startups.

5. Technical Roadmap

2026 (Phase 1)

Alibaba Cloud Foundation

- Migrate core services to ECS/ACK
- Deploy inference on Elastic GPU / PAI-EAS
- Build OSS-based content pipeline
- Patent registration (KR)
- Launch B2B SaaS pilot

2027 (Phase 2)

Regional Expansion

- Integrate Flink + AnalyticDB
- Multi-language support (EN, JP, CN)
- Launch Southeast Asia user acquisition
- Alibaba Cloud Marketplace / partners
- Enterprise white-label solution

2028 (Phase 3)

Financial AI Platform

- Autonomous research workspace
- Real-time voice interaction
- Expansion to 50+ specialized agents
- Global multi-region deployment
- Series A fundraising

Partner with Us

We aim to democratize quantitative trading through
Alibaba Cloud-powered AI Agents.

Startup Catalyst Fit: Cloud credits -> GPU inference scale -> real-time financial intelligence -> global distribution



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