

Full-Stack AI Observability with Chronosphere + Phoenix

From Infra to Model Performance with OpenTelemetry

Overview

- About Arize.ai
- Why I picked [Arize.ai](https://arize.ai)
- Why a Partnership makes sense
- Integration Overview (Miro board)
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About Arize.ai

- AI observability & evaluation platform – monitor and improve model quality
- Creators of Phoenix (OSS) – LLM/AI observability & eval platform
 - Prompt/response traces
 - Eval scores (toxicity, correctness, etc.)
 - Model comparisons & RAG workflows
- Maintainers of OpenInference (OSS) – OTel-aligned standard for AI tracing
 - Model comparisons & RAG workflows
- Standards-first – built on OpenTelemetry, integrates with existing observability stacks

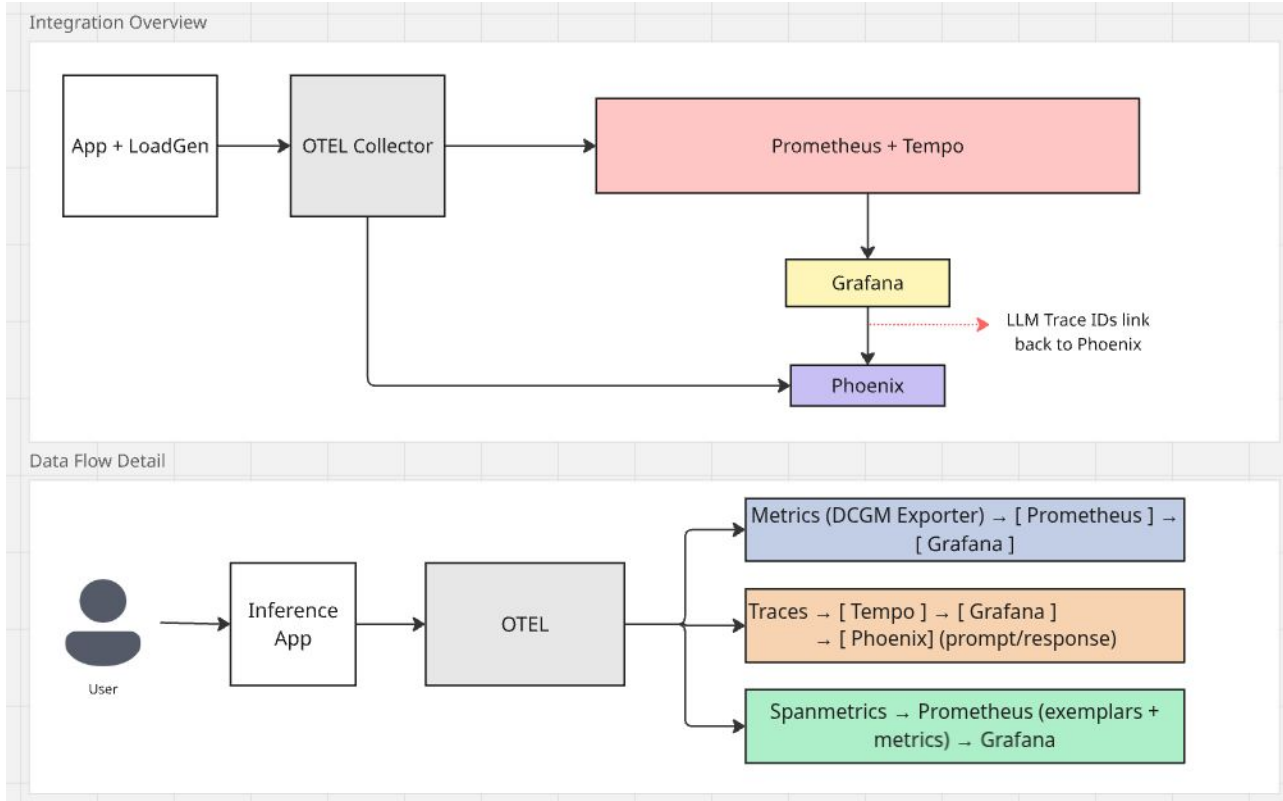
Why I picked Arize.ai

- AI adoption is exploding → Customers want more than raw infrastructure metrics.
- Teams need to answer:
 - Are my LLM outputs good — accurate, safe, and unbiased — ***not just fast and available?***
 - How do different models or versions compare in quality and reliability?
 - Are my embeddings drifting in ways that hurt answer quality?
 - How do infrastructure bottlenecks (GPU, latency, concurrency) impact inference quality and user experience?
 - When a poor response happens, can I trace it back to the root cause — data, model, or system?
- Business value: reduced cost, higher trust in AI outcomes, faster MTTR.

Why a Partnership Makes Sense

- **Chronosphere gains** → Model-aware telemetry to complement infra observability; closes any *perceived* AI gap vs. Datadog/New Relic
- **Arize/Phoenix gains** → Enterprise-grade infra correlation and scale (billions of datapoints/sec) that customers already trust
- **Customers gain** → Unified view of AI health — infra, GPUs, latency, *and* model quality in one place
- **Shared DNA** → Both built on **open standards / open source** (OTel + OpenInference + Prometheus); ethos of interoperability
- **Competitive edge** → Joint story against common competitors (DD/NR) who market “AI observability” but lack true LLM-aware depth

Integration Overview (Miro Board)



Beyond MVP

- Add Phoenix evals (toxicity, correctness, helpfulness) on captured traces
- Enable model comparisons in Phoenix to test different LLMs/prompts
- Extend tracing to RAG workflows (retrieval spans + embedding drift)
- Support multi-turn conversation traces instead of only single calls
- Integrate OpenInference SDK for standardized LLM observability
- Utilize “arize-phoenix-otel” package for easier instrumentation

Demo Time

