manadia Whitepaper

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Abstract

manadia is an AI-Native Compute Coordination Network designed for the era of AI Agents and intelligent applications. Its goal is not simply to aggregate GPU resources or act as a model API gateway, but to build an AI infrastructure network capable of coordinating distributed compute resources, model services, data sources, Agent execution environments, and trustworthy verification mechanisms.

In traditional computing platforms, computational resources are typically rented and consumed in the form of GPUs, servers, or cloud instances. In AI-native environments, however, what truly needs to be orchestrated is the complete AI workload. A single AI task may simultaneously involve model inference, token processing, context management, tool invocation, data retrieval, Agent planning, strategy execution, result recording, and audit tracing. Therefore, the computing network for the AI era should not only understand hardware resources, but also models, tasks, data, execution, and trust.

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Built upon its AI-Native Compute Coordination Network, manadia trains and operates the world's first Trustworthy AI Prediction Model. The model performs intelligent analysis using multi-source market data, on-chain data, prediction market data, news events, and sentiment signals, while leveraging a multi-strategy execution system to complete prediction, position allocation, risk management, and result verification. As the flagship product of the manadia network, the Trustworthy AI Prediction Model demonstrates how AI compute can evolve from foundational infrastructure into verifiable predictive intelligence and strategy execution capabilities.

Centered around its underlying compute network and core prediction model, manadia further builds a comprehensive product ecosystem including AI API Routing, Agent Trace, Vertigas Oracle, manadia Prediction Market, Potion, and manadia Pay. Together, these products serve a common objective: enabling coordinated AI compute, trainable AI models, verifiable AI data, and AI Agent execution that is observable, reproducible, and scalable.

This white paper focuses on three core components of the manadia technical architecture:

First, the AI-Native Compute Coordination Network. This section explains how manadia integrates heterogeneous compute resources, abstracts AI workloads, performs dynamic model routing, supports Agent Runtime, and optimizes AI tasks through an observable execution system.

Second, the world's first Trustworthy AI Prediction Model. This section explains how the model is trained on top of the compute coordination network, processes multi-source data, performs feature engineering, predictive inference, strategy execution, and trustworthy verification.

Third, the Product Ecosystem. This section explains how manadia builds a practical, deployable, and scalable portfolio of AI products around its compute coordination network and Trustworthy AI Prediction Model.

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1. Introduction

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