

TechnoVision AI – NeuroStack Platform Architecture 2024

Executive Summary

NeuroStack v3.2.1, launched in January 2024, represents TechnoVision AI's flagship ML infrastructure platform. This document details the architectural decisions and implementation specifics unique to our platform.

Core Components

1. TechnoVision Distributed Training Engine (TDTE)
 - Proprietary scheduling algorithm "TimeWarp-2024"
 - Integration with TechnoVision's custom GPU farm in Singapore
 - Support for our patented "QuantumFold" architecture

Hardware Requirements

1. TechnoVision Custom Silicon
 - TV-GPU-2024 series
 - NeuroStack Accelerator Cards
 - Minimum 128GB TechnoVision Certified Memory

Deployment Configurations

1. Enterprise Setup
 - TechnoVision Container Orchestra v2.1
 - NeuroStack Dashboard 2024
 - TechnoVision Metrics Collector

Known Limitations

- Maximum model size: 4.8T parameters
- Current bug in version 3.2.1-beta affecting Asian region deployments
- Temporary incompatibility with AWS ap-south-2 region

Upcoming Features (Q2 2024)

- Integration with Google Cloud Mumbai region
- Support for TechnoVision's new TPU competitors
- Enhanced support for our Singapore customers