

AIDomesticCoreAIJ

AI Kernel Whitepaper

AIDomesticCoreAIJ defines a formal Artificial Intelligence Kernel intended to operate as critical digital infrastructure for domestic, enterprise, and sovereign AI systems. This document describes the architectural principles, execution model, security posture, and governance approach of the kernel.

1. Motivation

Modern AI systems are increasingly embedded into critical workflows. AIDomesticCoreAIJ addresses the need for a stable, auditable, and sovereign AI execution core that is independent of individual model vendors or cloud providers.

2. Kernel Architecture

The kernel separates policy from mechanism, enforces deterministic execution when required, and provides standardized interfaces for models, memory, tools, and agents.

3. Governance & Compliance

AIDomesticCoreAIJ is designed to support regulatory alignment, auditability, and jurisdictional control without constraining innovation.

Conclusion

The AI Kernel approach enables long-term sustainability, trust, and safety in AI systems. AIDomesticCoreAIJ serves as a reference implementation for this paradigm.