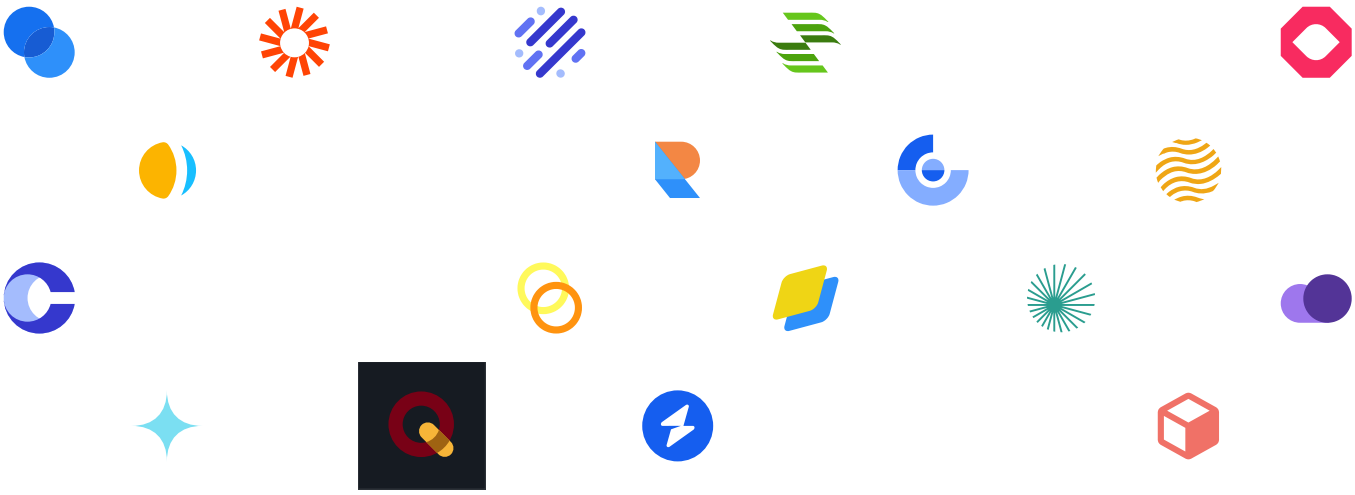
DEVELOPMENT

Building on Nesa Protocol

Nesa is for any Web2 and Web3 application that uses AI. To start running your model inference queries on-chain, upload your container to the AIVM.



Explore Integrations

NESA FEATURES

Developer Features

Nesa is engineered to make it as easy to deploy a model and run an AI inference query on-chain as it is to call a smart contract.

Upload Pipeline

Dedicated pipeline for model parameter submission, AIVM config files, and inference code with documentation.

Containerization

DNA containerization of the model, query template, qccess to external data store, AIVM file, and config parameters, and inferecne code.

Compute & Storage

GPU and TPU sharing with non-deterministic hardware instructions. Storage of AIVM kernels on IPFS and Arweave.

Evolution CI

End-to-end pipeline for model updates on-chain and version control for AIVM kernels, facilitating evolution while preserving lineage.

Directory

Repository with dev interface for model metadata including authorship, version history and performance benchmarks.

Deployment

Model selection from repos for initiation of inference tasks, handling data input, execution parameter config, and request submittal.

Security Suite

Tools for managing encryption keys and access controls to specify which nodes are authorized to execute models.

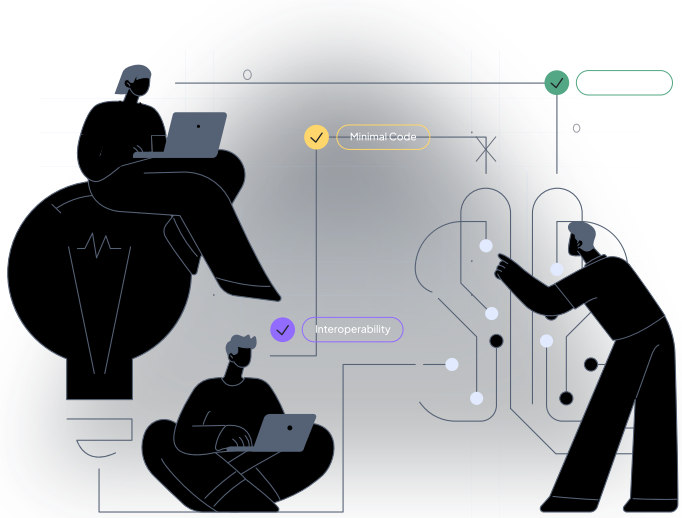
Monitoring & Analytics

Real-time monitoring of model performance and statistics tracking the usage activity and patterns of deployed models.

Get Started

1 Interoperable

Nesa's LiteBridge serves as the protocol enabling the AIVM to interoperate with different blockchain networks for model, data, parameter, and computational task transfer cross-chain.



2 Minimal Code

A minimal code interface for developers looking for factory inference query settings and a turnkey deployment setup on their small models or for their models that are slower to evolve.

3 Customizable

A richly customizable AIVM Execution process to prescribe steps every node must follow, including initialization procedure, data input convention, model

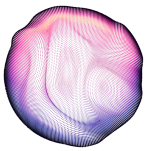
execution, and output

NATIVE DAPPS

dApps on Nesa

Nesa has integrations with major AI dApps across a spectrum of industries, use cases, and digital services. Here are two native examples.

DNA X



Agents

DNA X is the digital character platform, run on fully decentralized querying on Nesa. Create personas of yourself and your loved ones that you can chat with. Each character is minted as a tradable NFT and is a unique one-of-one asset containerized as an AIVM on Nesa Blockchain.

Get Started

Kya

Large Language Model

Kya is the maker of Helix-1, the Large Language Model for companion intelligence. The digital character platform, DNA X, is the exclusive Web3 partner for Helix-1's powerful companion model, which is hosted on Nesa Blockchain.

Get Started

Frequently Asked Questions

How does Nesa scale?

What is Nesa's architecture?

What programming languages and VMs are supported by Nesa?

How do I run a node on Nesa?

Where can developers get started?

How are queries paid for?

Build on Nesa as a

NES to mine.

Start building on Nesa by
uploading your model container
to create your own AIVM.

Build on Nesa

Mine on Nesa

