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# Interoperable AIVM

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The AIVM ensures uniform execution across all nodes on Nesa, analogous to the role

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discrepancies in model execution that could otherwise prevent consensus on inference results.

# The Artificial Intelligence Virtual Machine

The on-chain model and AIVM repository represent the decentralized storage and management system for AI models and their associated virtual machine configurations on Nesa. This repository acts as a global library, enabling users to access and deploy pre-existing AI models and developers to contribute new models and AIVMs.

Each AI model in the AIVM ecosystem comprises the integral components of model parameters, AIVM configuration file, inference code, and aggregation code. Together these components form what we call an AIVM kernel.

Nesa's LiteBridge enables the AIVM to interoperate with different blockchain networks allowing for the transfer of models, data, and even computational tasks across different platforms.



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