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Tokenization

DIGITAL ASSET

Nesa's native asset, NES, is an essential part of how developers build on the blockchain

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Role of NES

Just as ETH is used on Ethereum-based rollups, developers can query their AI model quickly through Nesa by using NES as a gas token and currency in addition to paying for data availability.

To publish data on Nesa developers can submit PayForQuery transactions. This is facilitated by queryStream, the method to stream Nesa's Verification Layer results to the blockchain.

Each PayForQuery transaction is split into two parts: the inference query which includes the data to be made available along with the namespace and signature, and the NES executable payment transaction which includes a commitment to the data. The block data is extended using erasure coding and then Merkelized into a data root commitment included in the block header.

Nesa uses a standard gas-price prioritized mempool. This means that transactions with higher fees will be prioritized by validators. Fees are comprised of a flat fee per transaction and then a variable fee based on the size of each query in the transaction.



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