GraphAI

The First MCP-Based, GraphRAG-Powered AI Data Layer

Enabling the Integration of RWAs into the world of DeFAI

Preface

GraphAI leverages the Model Context Protocol (MCP) to standardize how AI models efficiently ingest external data. Building on MCP, it enables real-time, scalable, secure indexing of blockchain information, delivering deep insights and contextual understanding for integrating Real World Assets into DeFAI applications.

By indexing historic and live blockchain data, GraphAI automatically creates highly customized sub-indexes stored in vector databases and a comprehensive accompanying knowledge graph. This groundbreaking capability opens powerful new possibilities for applying blockchain data and RWAs within advanced AI and machine-learning workflows, especially Large Language Models (LLMs).

The GraphAI offering is divided into 3 separate, but integrated product offerings:

- GraphRWA: An AI-powered discovery, compliance, and management protocol for tokenized real-world assets.
- GraphFi: A real-time data intelligence protocol for autonomous trading, lending, and governance.
- GraphGrid: A decentralized data ownership and staking protocol for DePIN ecosystems.

Our Team

GraphAI

Advisor

Professor Yu Kong

Associate Vice President for Strategic Engagement, Chair of Business Analytics at the Stevens Institute of Business

Expertise:
- Renowned for blockchain technology and supply chain innovations
- Leadership:
- Extensive leadership in the fields of research and commercialization

Achievements:
- Secured significant funding for various projects
- Recognized for contributions to the field of distributed systems, receiving high recognition

Anis Chohan
CEO

Expertise:
- Seasoned CEO of Vinar and Virtua

Achievements:
- Blockchain technology and scaling projects in Asia
- Speed-headed the post-Hack NFT

Ray
Chief Technology Lead

Expertise:
- Specialized in blockchain architecture and optimizing corporate processes

Expertise:
- Blockchain oversight and process streamlining

Achievements:
- Boosted efficiency and productivity across multiple blockchain projects, helping corporate operations significantly

Moh
CMO, Investor

Expertise:
- Marketing & Investing At Crossover

Achievements:
- YouTube/Twitter/Insider with 50,000+ subscribers, amplifying complex AI concepts

Vishu
Lead Developer

Expertise:
- Blockchain Developer with a robust background in Rust and Solidity

Expertise:
- Specialized in AI development with deep technical skills in blockchain

Achievements:
- Successful implementations of AI Wrappers and Oracle Network in the blockchain development arena.

Jess
Marketing Lead

Expertise:
- Digital marketing expert with 8 years of experience

Expertise:
- Strategic execution and developing trend-driven strategies

Achievements:
- Successful viral visibility with innovative marketing approaches

Current Limitations & Challenges

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Blockchain Data Too Unstructured & Fragmented for AI Agents

Lack of Contextual Data Blocks Integration of RWAs into DeFAI Protocols

Isolated Transaction Data Obscures Actionable On-Chain Financial Insights

Solution Vectorization

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MCP technology standardizes how AI models receive structured blockchain context.

Open Graph RAG converts multi-chain events into queryable knowledge graphs and vector embeddings.

On-chain RWA data integration delivers granular asset histories, valuations, and compliance signals.

Staging a New Era of $7.6B

Total Serviceable Obtainable Market

Novel Application

Decentralized Knowledge Graphs for Semantic Web3

Utilizing GraphAI to create and manage decentralized knowledge graphs that enable semantic searches and intelligent data discovery across the blockchain, enhancing data connectivity and usability without central oversight.

AI-Driven Smart Contracts

Implementing GraphAI to automatically generate and execute smart contracts based on real-time data analysis and pattern recognition within decentralized systems, ensuring trust and compliance in transactions.

Decentralized Identity Verification

Using GraphAI to manage and verify digital identities with enhanced privacy and security, enabling users to control their own identity data across multiple platforms without a centralized authority.

Use Cases

Tokenomics Optimization

GraphAI employs advanced algorithms to embed and sub-index blockchain data into vector databases, enhancing data retrieval and analysis efficiency. This facilitates the creation, management, and querying of complex datasets in a decentralized environment.

Dynamic NFT Metadata

Leveraging GraphAI to dynamically update NFT metadata based on real-world events or user interactions, thereby increasing the interactivity and functionality of NFTs in gaming, art, and collectibles.

Decentralized Credit Scoring

Applying GraphAI to aggregate and analyze decentralized finance (DeFi) transaction histories, enabling more accurate, unbiased credit scoring models for underbanked and underserved populations.

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Key Components

Data Indexing
Processes both real-time and historical blockchain data, ensuring comprehensive coverage and utility

Sub-Indexes
Enables creation of tailored indexes to meet specific operational requirements, enhancing data accessibility and scalability

Vector Databases
Optimizes data storage for efficient AI operations, crucial for maintaining speed and accuracy in data retrieval.

Knowledge Graph Integration
Enhances data contextualization, linking disparate data points to generate meaningful insights and drive intelligent decision-making.

MCP-Native Context Driven Retrieval Augmented Generation (RAG) Framework

Contextualization
Maps data evolutions and connects metadata, enriching the blockchain data landscape.

Enhanced AI Understanding
Provides a deeper comprehension of data, crucial for developing nuanced AI responses.

Continuous Lifecycle
From data ingestion to relationship mapping and content building, ensures a dynamic and responsive data handling environment.

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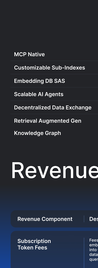
GraphAI Architecture



Product Features

Embedding & Sub-Indexing
GraphAI employs advanced algorithms to embed and sub-index blockchain data into vector databases, enhancing data retrieval and analysis efficiency. This facilitates the creation, management, and querying of complex datasets in a decentralized environment.

Real-Time Analytics
GraphAI provides instant analytics and insights. This feature is crucial for applications requiring immediate data processing, such as financial trading platforms and emergency response systems.

Modular Architecture
The platform's architecture is designed to be highly modular, allowing for seamless integration with existing blockchain systems and easy scalability.

Decentralized Marketplace
GraphAI facilitates a decentralized marketplace for buying and selling data securely.

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2024 Market Size

$20B
Total addressable AI Web3 Development Market

$8B
Servicable Available Market

$1.6B
Total Servicable Obtainable AI Web3 development market

$2B
Servicable Obtainable Market

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Competitive Analysis

	The Graph	fetch.ai	ocean	SingularityNET	GraphAI
MCP Native					✓
Customizable Sub-Indexes	✓				✓
Embedding DB SAS					✓
Scalable AI Agents		✓		✓	✓
Decentralized Data Exchange	✓	✓	✓	✓	✓
Retrieval Augmented Gen					✓
Knowledge Graph				✓	✓

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Revenue Structure

Revenue Component	Description	Beneficiaries	Revenue Flow
Subscription Token Fees	Fees charged for subscription services via GraphAI's vector databases as part of data queries.	GraphAI Nodes, GraphAI Validators	Developers and businesses pay a fee for subscription services. Fees are distributed to GraphAI nodes for processing and validators for securing the data queries.
Decentralized Data Marketplace	A platform where users buy and sell sub-indexed data securely, facilitated by GraphAI's blockchain infrastructure.	Data Providers, Data Consumers, GraphAI	Data providers list and sell indexed data; consumers buy this data. GraphAI curators oversee data quality and transaction integrity, sharing in the marketplace's commission.

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Roadmap

Beta Release Q4 2024
- Public beta release of GraphAI analytics and embedding platform.
- Integration with existing blockchain platforms to showcase real-world application.

Token Generation Event Q2 2025
- Launch of GraphAI's native token for transaction facilitation within the platform.
- Implementation of token staking for data validation and transaction verification service.

Expansion of Data Analytics Q3 2025
- Expansion of data analytics capabilities to include predictive modeling and AI-driven forecasting.
- Introduction of custom AI services tailored to enterprise needs.

Next Generation AI Models Rollout Q1 2026
- Rollout of next-generation AI models integrated within the GraphAI ecosystem.
- Enhancement of AI capabilities to include deep learning.

2024 — 2025 — 2026

GraphAI DevNet Q2 2025
- Launch of the GraphAI DevNet for rigorous testing of the vector database embedding and sub-indexing capabilities.
- Initial release of developer tool and analytics tools for early adopters.

MainNet Launch Q3 2025
- Official launch of GraphAI MainNet.
- Full integration of decentralized data marketplace functionalities.

Enhanced Data Compliance Q4 2025
- Rollout of features to ensure compliance with global data regulations and privacy standards.
- Development of privacy-preserving data analytics models.

Token

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The GraphAI ecosystem is powered by the GRAI token.
The token provides the platform the economy for the following systems.

Governance Systems
Allows the community to direct the development and policies of the network effectively.

Payment Channels
Facilitates economic transactions and micotransactions, enhancing network fluidity.

Query & Indexing Marketplace
Incentivizes the provision of high-quality data and services, fostering a vibrant ecosystem.

Token Allocation

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AI Meets Blockchain

Next-Level Data Intelligence

Integrate AI using embeddings to streamline operations and drive innovation

Website Docs