

2025

A close-up, low-angle shot of a robotic hand made of articulated metal joints. The hand is holding a sleek, black smartphone. The screen of the phone displays the CogniToken logo, which is a large, glowing blue and purple circular icon. The background is a dark, blurred gradient of blue and purple.

CogniToken

Intelligent Decision-Making System White Paper

WHITE PAPER V1.0



Project Overview

With the rapid evolution of the Web3 ecosystem, the blockchain industry structure has become increasingly complex, with new concepts and new sectors emerging constantly, making it challenging for ordinary users to obtain a comprehensive understanding of the ecosystem.

CogniToken aims to build an AI-driven intelligent decision-making system that provides users with smarter trading decisions, clearer industry insights, and more convenient token screening in a decentralized environment. By combining large-scale machine learning, natural language processing, and real-time on-chain data, CogniToken creates a platform similar to an “intelligent trading brain,” making specialized analysis simple and intuitive. As the industry says, AI is becoming an essential “plus one” for Web3, converting complex trading and investment functions into simple conversational guidance through natural language interfaces. In this trend, CogniToken follows suit by empowering blockchain trading and strategic decisions with AI technology. In the future, as AI deeply penetrates various industries, the blockchain sector will inevitably become a key focus of a new wave of intelligent innovation.

Core functional modules, including industry trend identification and concept analysis modules, K-line technical indicator and strategy response modules, DEX trading assistance modules, and intelligent strategy generation engines. The system continuously builds and updates a blockchain industry knowledge graph through deep learning and big data technology to gain real-time market insights; at the same time, it supports users to obtain customized technical analysis and strategy suggestions via natural language queries. As an integrated decision-making platform in the Web3 domain, CogniToken not only helps users identify potential assets and risks but can also automatically generate and execute trading strategies according to user needs, providing full-process AI-assisted services for traders of different levels. The following sections will detail CogniToken’s core technical capabilities, system architecture, product value, technological innovations, future plans, token economics, and development roadmap.





Core technology modules

CogniToken is composed of several modular components, each focusing on specific functions that collaboratively provide intelligent services to users. These modules include:

- Industry Trend Identification and Structured Cognition Module: This module functions as a high-precision industry map, capable of comprehensively identifying the entire blockchain industry structure, automatically extracting trending sectors in real time, and updating the industry map daily. The system uses a proprietary cognitive algorithm to dynamically organize information based on user identity and query context, providing targeted analytical interpretations. Unlike traditional static knowledge bases, CogniToken's cognitive engine is powered by computing-driven knowledge graphs that automatically retrieve the latest industry developments upon user inquiry, judging which sectors are entering an upward channel and which may have peaked, thereby offering systematic trend assessments. For example, if a user asks, “Does NFT still have room for development?”, this module not only provides market data but also correlates the past three months’ trading volume trends, active degree comparisons among different NFT types, related protocols, and L2 scaling developments, delivering comprehensive cross-analyses. Leveraging this module, CogniToken possesses high-dimensional intent understanding and structured feedback capability, truly achieving multi-perspective, data-driven analysis of Web3 industry knowledge.
- K-line Technical Indicator Analysis Engine: This module builds a “conversational technical analysis assistant” based on real-time market data. Users can ask questions in natural language such as “Is it suitable to buy a certain coin now?”, “Which support level is the current price near?”, or “Has BTC’s MACD formed a death cross?”. Upon receiving a query, the system immediately fetches the latest K-line, order book depth, trading volume, and other key market data of the relevant coin, and analyzes it using pre-set technical indicator models (such as MACD, RSI, KDJ, Bollinger Bands, EMA/SMA, etc.).



Ultimately, CogniToken returns a structured textual strategy recommendation, including trend judgment, key price ranges, entry points, stop-loss levels, and the underlying logical conditions. For example, when asked, “What trend is ETH currently in?”, the system can generate responses like “ETH is currently in an upward channel; the short-term pullback has reached the support zone between \$X and \$Y; consider buying in batches within this zone, with a stop-loss at \$Z; if volume expands synchronously, the trend is likely to continue.” This module differs from traditional systems that merely report indicator values — it is an “interpretative technical analysis engine” that understands the meaning of indicators and price patterns, providing interpreted, strategic, and conditional advice within conversations rather than simple data listing. The system also supports multi-token independent analysis configurations, building a dedicated Q\&A bot for each token, combining its historical price characteristics and user preferences to offer customized and stylistic response content, greatly enhancing the matching degree and practicality of strategy suggestions.

- DEX Trading Assistance Module: This module provides comprehensive on-chain intelligent support for decentralized trading, helping users quickly screen potential tokens and avoid high-risk assets through natural language Q\&A and multidimensional data analysis. Key functions include:

- Token Price Surge and Drop Monitoring: The system automatically captures tokens with abnormal price fluctuations within 24 hours and classifies them as rising or falling trends. Users can quickly view recent surge or drop projects on a list and click to access detailed pages showing on-chain information, current and previous period prices, liquidity conditions, 24-hour trading volume, and multidimensional risk tags. These indicators help users intuitively assess token activity and potential investment value.

- AI Trading History Analysis: On each token’s detail page, users can activate an AI-based trading analyzer with one click. Based on on-chain trading behavior data (such as buy and sell frequency, distribution of holder addresses, and slippage variations, etc.), the engine automatically generates an overview of token performance, trend judgments, potential trade opportunities, risk alerts, and operation advice. For example, the system may suggest whether to wait for a price pullback or set take-profit points, truly assisting users in “understanding trading records, comprehending market structure, and knowing how to act.”

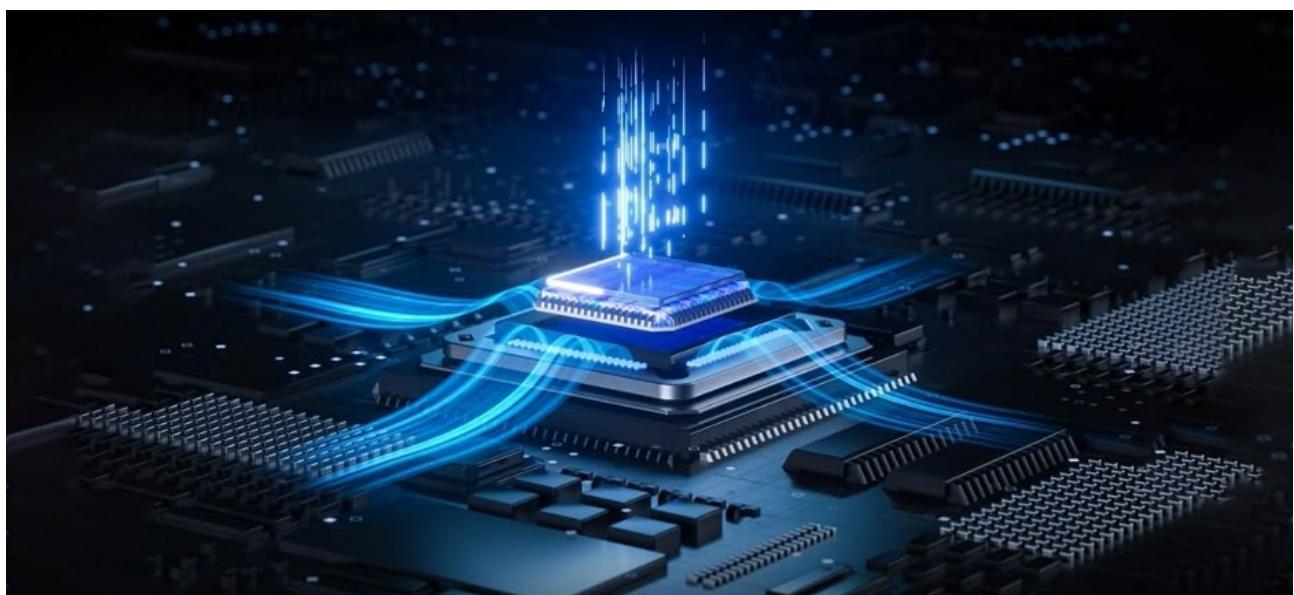


• Multi-Chain Trading Pair Monitoring: CogniToken supports cross-chain and multi-platform monitoring, currently covering major networks such as BNB Chain, Ethereum, Base, Arbitrum, among others. The system real-time tracks active trading pairs and key indicators (such as trading volume, address distribution, slippage changes, holder address changes) on each chain, suitable for users of various DEX ecosystem strategies, ensuring no potential opportunity is missed.

• Blacklist and Risk Control System: The platform includes a high-risk token blacklist module, regularly updating suspicious or problematic contract addresses and marking risk reasons (e.g., contract vulnerabilities, pump-and-dump features, abnormal transactions). Users receive risk alerts when querying and can jump directly to on-chain explorers to verify contracts, helping grasp project underlying risks before investing.

• Data Statistics and Alert Center: The system provides a data statistics dashboard that automatically aggregates the number of active trading pairs on each chain within 24 hours, the number of tokens with abnormal prices, blacklist trigger frequency, and other indicators. Through macro data analysis, users quickly understand current market hot spots and potential risks.

Through these features, CogniToken offers a one-stop intelligent service platform for DEX trading: covering token screening to risk prediction. Users can ask trading questions conversationally, and the system combines real-time on-chain data and historical performance to provide structured professional advice, effectively lowering the usage threshold of DEX trading.





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- Intelligent Strategy Generation Engine: This module uses machine learning and deep learning algorithms to automatically generate and optimize trading strategies based on historical market data and real-time market sentiment, functioning similarly to an advanced crypto trading bot. The system first collects multi-source information, including market data from major exchanges, on-chain data, news, and social media sentiment; then mines trading patterns and predicts price trends based on neural network models; finally, it automatically generates buy and sell signals and executes trades via exchange APIs. Key highlights include:
 - Data-driven Strategy Generation: By integrating cross-chain data, market sentiment, and technical indicators, the machine learning model captures complex trading signals under multiple driving factors.
 - Diverse Strategy Templates: The system supports various strategy templates, including grid trading, trend following, and contract trading, allowing users to select strategies according to their risk preferences.
 - Self-learning and Continuous Optimization: Through historical backtesting and online learning, the platform continuously optimizes strategy parameters, enabling trading models to adapt to current market conditions in real time.
 - Automated Execution: Generated strategies can be automatically deployed to major trading platforms via APIs, executing buy and sell commands quickly, eliminating manual steps, and greatly improving trading speed and efficiency.

This module enables ordinary users to enjoy intelligent decision support like quant trading teams. Users do not need to write code or configure complex parameters, just complete strategy setup through a Q\&A interface. CogniToken continuously trains strategy models via deep learning algorithms, making the trading decision process more transparent and convenient, helping users minimize human errors and emotional biases, and achieve 24/7 automated profit and loss management.



System architecture and technical foundation

CogniToken adopts a high-performance distributed architecture to ensure system stability and response speed. The AI core system is deployed on a GPU computing cluster: the core cluster comprises 10 NVIDIA H100 GPUs for training and 10 NVIDIA H200 inference nodes for real-time model inference, with a total computing power close to 7.2 PFLOPS. Utilizing NVIDIA CUDA parallel processing architecture and independent memory segmentation technology, the platform ensures that each user request completes data preprocessing, model inference, and strategy feedback within milliseconds, improving concurrent processing capacity.

At the microservice level, each analysis function module (such as market identification, sentiment detection, strategy scheduling, trading routing, etc.) is deployed as an independent service and supports online hot updates, enabling 24/7 uninterrupted operation. This microservice architecture allows independent scaling and maintenance of different services, further enhancing system reliability and scalability. Core data storage uses a hybrid architecture of LevelDB and Redis to ensure instant querying and comparison of behavioral data for millions of wallet addresses.

In terms of data processing, CogniToken has built a high-speed streaming pipeline that continuously captures real-time data from major public chains, centralized exchanges, and social media, performing cleaning, indexing, and analysis. After data aggregation, it supports AI modules and frontend requests to ensure decisions are based on the latest market information. Additionally, the platform supports standardized API interfaces, facilitating institutional users to connect with quantitative strategy systems, market makers, and risk control platforms for strategy sharing and multi-account parallel management. Overall, CogniToken's underlying architecture combines heterogeneous computing resources, microservice governance, and high-performance storage, providing a solid technical foundation for complex intelligent trading tasks.



Product value and application scenarios

CogniToken positions itself as an intelligent assistant infrastructure in the Web3 world, dedicated to enhancing users’ “information processing efficiency” and “market adaptability” through AI. Unlike traditional market tools that merely display data, CogniToken endows data with commercial value through reasoning and structured analysis. One of its key features is natural language interaction: users can ask questions in simple sentences without navigating complex interfaces or mastering technical indicators, and the system will return actionable strategy suggestions. This aligns with the industry trend—AI replaces complex dropdown menus and chart interfaces with simple conversational guidance, enabling both novices and professional traders to quickly get started.

CogniToken’s intelligent Q&A and real-time analysis make decentralized trading “queryable, understandable, and executable,” effectively solving users’ information filtering challenges within the DEX ecosystem.

In specific user scenarios, CogniToken offers broad applicability:

- Individual Investors: Provides an easy-to-use all-in-one trading experience for ordinary traders. Users do not need to grasp complex quant parameters or strategy formulas; they can simply select strategy templates and configure basic settings according to their preferences to run automated trades. The system intelligently adapts strategy styles based on user interaction habits and historical preferences, working in tandem with AI bots. This lowers technical barriers, allowing users to make high-quality decisions and effectively avoid emotional trading.

- Professional Traders: Offers deeper customization features for experienced operators. Professionals can upload custom technical indicators and K-line patterns to train personalized strategy models, ensuring the system’s decision logic matches their trading styles. Additionally, AI bots can perform automated position adjustments, intelligent trailing stops, and risk control interventions during extreme market conditions, helping professionals maintain their trading style while improving strategy responsiveness and fault tolerance.



- **Crypto Institutions and Quant Teams:** CogniToken provides standardized API interfaces to facilitate integration with quant funds, market makers, and trading platforms. Institutional users can reuse existing strategies, manage multiple accounts in parallel, and utilize the platform for strategy backtesting, market trend simulation, and capital behavior modeling. The quant modules have been validated by several Web3 quant trading teams, providing trustworthy data support for strategy development and risk management.

- **Blockchain Projects:** Project teams can monitor multi-dimensional sentiment indicators such as their token's market attention, on-chain holding structure, and social media heat in real time. The system also supports a “one-click analysis report generation” feature, offering data-driven references for tokenomics optimization, liquidity management, and community governance.

Through these scenarios, CogniToken demonstrates significant product value: it offers a closed-loop service from market insight to trade execution, enabling ordinary traders to enjoy quant-team-level decision support, while serving as an essential analytical tool for professional teams and project parties. True to its vision of building a Web3 intelligent assistant, CogniToken is not merely an information aggregator or a toolset, but an “intelligent trading brain” with reasoning, judgment, and strategic capabilities—integrating AI recognition, quant strategies, and data interpretation to provide reliable support for users navigating the ever-changing market.





Token Economics Design

Total amount description

Total Tokens: 100 million (100,000,000)

Founding team: 12%

Product operation: 3%

Partner institutions: 2.5%

Brand and Market Fund: 2.5%

Ecosystem development: 20%

User growth incentive: 10%

Locked token reserves: 50%

Among these, the locked portion accounts for 50%, totaling 50 million tokens, which will be released quarterly at 5% per quarter over 20 quarters (approximately 5 years). The remaining tokens will be gradually unlocked according to project milestones to ensure market stability and support long-term development.

The overall token distribution design balances team incentives, market promotion, ecosystem construction, and user growth. The unlocking mechanism is stable and controllable to avoid short-term inflation shocks, thereby providing sustainable support for the platform's ecosystem.

All tokens allocated to the team and advisors are subject to multi-year linear vesting schedules to ensure alignment with the project's long-term development.

Funds raised will be primarily invested in technology R&D, server capacity expansion, marketing, and ecosystem construction to accelerate the iterative upgrading of the CogniToken platform. In summary, the tokenomics model balances investor incentives, team motivation, and ecosystem growth requirements, aiming to establish a healthy and sustainable token economic ecosystem.



Development and Planning

In June 2023, the project team completed preliminary market research and product function structure design, clarified the overall technical route and target user groups, marking the official start of product planning work.

In August 2023, the official social media account was officially launched and began to release project information to the early community, preheat the brand, and establish basic user attention.

In February 2024, the project reached a strategic cooperation with a number of blockchain institutions and completed the initial layout of resource integration, capital matching and ecological expansion.

In March 2024, the product entered the formal development stage, and the team started the construction of the core system and the prototyping and coding of the main functional modules.

In December 2024, the closed beta test of the product was launched, and some core users were invited to participate in the test, collect feedback, and optimize functions and improve the system.

In March 2025, the project launched large-scale market promotion, covering online and offline community activities, KOL cooperation and brand promotion, to further expand its market influence.

In June 2025, the first trading pair of the token will be launched, and users can trade freely, initially establishing market liquidity.

In June 2025, the product will be officially launched in public beta, open for registration and use of major functions, and the product will officially enter the commercial operation stage.

In July 2025, the project tokens will be listed on a number of mainstream trading platforms to enhance market accessibility and user acquisition efficiency.

In September 2025, the team launched a global roadshow, traveling to key regions such as North America, Europe, and Asia to conduct face-to-face exchanges with industry partners, users, and investors to promote the global ecological layout.

In February 2026, the product will complete the iteration of key functions and launch the AI Strategy Center module, supporting personalized trading strategy recommendations and intelligent operations, further improving user experience and product technical barriers.



Future Functionality Outlook

Looking ahead, CogniToken will continue to innovate on the basis of the original four modules, and expand more intelligent functions and wider application scenarios:

- Multimodal intelligent analysis: Introducing more types of data sources, including image recognition (such as token logos and project profile pictures), contract code structure, on-chain behavior logs, etc., to achieve richer market insights through multimodal deep learning models. For example, by analyzing project white paper images, contract open source links, and on-chain transaction patterns, the system can more accurately assess project risks and value.
- Multi-language support: In addition to Chinese, multi-language versions such as English, Korean, and Japanese are launched to help CogniToken cover the global market. Multi-language services will break through geographical and language barriers, allowing global users to use localized AI question-and-answer and transaction assistance services.
- Cross-chain strategy analysis: Deepen the multi-chain ecological adaptability, expand the strategy engine to more public chains and protocols, and realize advanced functions such as cross-chain arbitrage and risk consensus. In the future, users can simulate the transaction paths and risks between different networks on the platform, and the system will prompt the optimal execution plan.
- Personalized user services: Based on user characteristics such as position portfolio, historical trading behavior and active time, the user portrait is refined to build a personalized recommendation and early warning system. The system will actively push hot spot tracking, strategy adjustment suggestions and risk warnings that meet the user's investment preferences to provide users with attentive services that "understand what you need".
- Ecosystem application expansion: In addition to financial scenarios, CogniToken will explore the application of AI in areas such as NFT evaluation, DeFi insurance and on-chain insurance, and provide intelligent analysis tools to a wider range of Web3 ecosystem partners by further integrating AI and blockchain.

In short, CogniToken will continue to iterate its AI models and system functions, so that it can gradually evolve from an information and data processing platform to a comprehensive Web3 smart trading ecosystem infrastructure. The future Web3 competition is not only in the computing power level, but also in the competition of smart tools and services, and CogniToken is committed to becoming the best partner for participants in this smart trading revolution.



Conclusion

In the ever-changing blockchain market, traders are faced with not only price fluctuations, but also challenges such as information asymmetry, unstable decision-making, and difficulty in controlling the execution rhythm. CogniToken was born in the context of this demand, aiming to provide each user with a comprehensive platform that integrates AI recognition, quantitative strategies, and data deduction. It will combine real-time data with intelligent strategies to give professional answers; users can also let the system monitor the market all day and automatically execute strategies at key points. In this process, CogniToken does not want to replace traders, but to improve their cognitive efficiency and market response capabilities through assistance. CogniToken's ultimate goal is to become an intelligent trading "assistant" and "co-creator" in the Web3 world, helping users to more calmly pursue the goal of both profit and security in a highly volatile market. We look forward to working with partners from all industries to jointly promote the development of intelligent trading technology and achieve groundbreaking cooperation and win-win results.

