**Available Third-party Crpyto Agents**

**需求场景：**

**用户持有一定量的ETH，并且看好ETH会涨。但是又想做一些其他的投资来进行对冲，又没有充足的现金流。于是询问我们agent在持有ETH的同时如何获取现金流，并且如何进行投资来对冲，在我们的agent生成对应的策略后，确认让我们的agent执行并完成相应的交易操作。**

**步骤任务：**

**步骤 1：获取额外现金流**

**用户需求：**用户向我们agent请求生成一个在他/她持有ETH的同时，获取额外现金流的策略。

**解决方案：**我们的agent比较选择最佳的第三方agent生成并执行可以在持有ETH的同时获取现金流的最佳策略。例如：

* 质押：通过质押加密资产获取稳定币。
* 借贷：通过借贷平台获取额外现金流。
* 流动性挖矿：通过提供流动性获取收益。、

**步骤 2：投资有价值的资产**

**用户需求：**用户向我们agent请求生成一个对冲他/她持有ETH带来的风险的投资策略。用户需提供大概的意图需求，例如“希望在市场下跌时减少高风险资产的持仓”，然后由AI代理生成并执行具体的策略。

**解决方案：**

1. **选择策略：**我们的agent比较选择最佳的第三方agent根据用户需求挑选对冲资产进行投资。这可能包括蓝筹币（如BTC、ETH）、热门DeFi代币（如AAVE、COMP）、稳定币套利策略等。
2. **执行策略：**

* **连接钱包：**将你的钱包（如MetaMask）连接到Uniswap。
* **选择资产：**AI agent选择目标资产。例如，假设AI代理选择了50%投资ETH，25%投资AAVE，25%投资USDC。
* **分散投资：**投资完成后，确保资产分布符合AI代理的策略。

**步骤 3：监控资产和管理投资**

**用户需求：**用户定义需要重点关注的资产和投资组合，明确何时以及如何调整投资策略。

**解决方案：**我们的agent比较选择最佳的第三方agent根据用户需求帮他/她监控资产和管理投资

1. **监控投资表现：**
2. 使用DeFi Pulse或其他投资管理平台实时监控你的投资表现。
3. AI代理根据市场变化随时调整投资组合，确保收益最大化和风险最小化。
4. **调整投资策略：**AI代理会根据市场分析和数据调整投资策略。例如，如果AAVE表现不佳，可能会将部分AAVE转换为更有潜力的资产

**步骤 4：赎回ETH，结束交易**

**用户需求：**用户需要明确在什么情况下赎回ETH。用户需要确定赎回的具体条件和阈值，例如达到某个收益目标或市场条件变化。

**解决方案：**我们的agent选择最佳的第三方agent根据用户需求帮他/她赎回ETH

1. **将投资资产换回DAI：**

* 当用户决定赎回ETH时，AI代理会将投资的资产（ETH、AAVE、USDC等）换回DAI。
* 使用Uniswap将ETH、AAVE、USDC等换成DAI。

1. **偿还DAI并赎回ETH：**

* 在MakerDAO中，将DAI还给Vault并支付一定的稳定费。
* 根据当前ETH的价格，用户可以赎回你的ETH。
* 假设ETH价格上涨了50%，用户抵押的10 ETH现在价值15 ETH。

1. **关闭Vault：**

* 还清DAI后，关闭用户的Vault并取回剩余的ETH。

**分工安排：**

1. **搭建我们自己的agent**
2. **部署llama**，将其变为可调用第三方agent的API的形式（已完成）
3. 将以上用户需求转换成对我们agent的文字指令请求
4. 完成**与llama的交互**，包括**输入**用户需求，处理llama**输出**的选择结果
5. **写prompt**，让我们的agent理解处理用户的文字输入，搜寻学习第三方crypto agent，进行筛选比较，返回选择结果。
6. **与第三方crypto agent交互**

让我们的agent根据用户指令请求搜集、学习、调用对应的第三方agent/工具（这里需要使用GPT4整理搜索得到的信息，因为web3 agent的文档相对而言更复杂一些，llama的上下长度是不够用的）

1. 筛选整理agent list里可用的第三方crypto agent
2. 搜集第三方crypto agent的功能属性和调用方法，并整理成文档。这个文档可以让我们agent直接使用，无需自行搜集
3. 在没有list，需要自行搜集agent时，将上面的文档作为模板输入GPT4中，让GPT4自动搜集可用的第三方crypto agent。将找到的agent以及这些agent整理成类似的模板，提供给我们的agent使用。
4. 通过代码调用使用第三方crypto agent （做成function的形式，可以通过函数名和参数调用）完成任务，返回给用户，满足其需求
5. **比较选择第三方crypto agents**

让我们的agent筛选衡量比较找到的第三方agent，从中选择最佳的第三方agent/工具（这里的核心也是prompt，要让我们的agent理解每个第三方agent的功能，才能做出选择）

1. 根据gpt找到的crypto agent描述介绍进行比较选择
2. 根据cryptoagent过往的生成结果sample进行比较选择
3. 运行所有的cryptoagent，从他们的生成结果进行比较选择
4. 根据各个crypto agent完成子任务的情况进行评分，选取分数最高的crypto agent作为结果
5. **完成上述功能的整合**

**Agent List：**

**在Multi AI agent策略应用场景中，可以分配不同的AI代理来专门处理每个步骤，确保每个环节都由最适合的AI代理负责。例如：**

1. 策略生成代理：专门负责根据用户需求和市场分析生成推荐策略。
2. 工具选择代理：根据生成的策略选择最合适的工具和平台。
3. 执行代理：负责调用工具执行策略的具体链上交易操作，如质押、借贷、投资等。
4. 监控代理：实时监控投资表现，调整策略。
5. 赎回/再投资代理：负责赎回资产或进行再投资

**寻找筛选agent的标准：**

1. The agent should be able to call and use in crypto
2. The agent should have free and open API to call and use
3. The agent should have documentation and description to learn its capacity and functionality
4. The agent should be able to call crypto assets or applications to take actions and finish tasks
5. The agent should be able to both generate the solution and undertake the solution
6. Please attach the corresponding links to support the information you fill in the blank below
7. Add (your name) in the Type column

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| 名称 | 类型 步骤 | 描述介绍 | 功能用途 | 调用方式 | 性能参数 |
| AgentLayer  https://agentlayer.xyz/home  (Jel) | 类型1  步骤1 2 | AgentLayer is a pioneering protocol that aims to create a decentralized, permissionless network for autonomous AI agents, combining the power of generative AI with the security and reliability of blockchain technology. It is designed to facilitate collaboration among AI agents with minimal human intervention, while ensuring oversight for trust and reliability. AgentLayer stands out as the world's first decentralized network specifically tailored for AI agents, using a Byzantine fault-tolerant blockchain to establish a registry of AI services, agents, and models.  https://agentlayer.xyz/faq | **0xAgent:**  The Web3 AI search engine is transforming memes into investment gold. Discover trends, insights, and marketing magic on the decentralised web.  https://agentlayer.xyz/registry/explore | AgentLayer provides open APIs and SDKs to facilitate developer engagement and integration with the platform.  https://agentlayer.xyz/faq | Monitoring and evaluating the performance of AI agents on AgentLayer is facilitated through the platform's built-in analytics and reporting tools. These tools provide insights into agent activity, user interactions, and task completion rates, allowing developers and users to assess the effectiveness of AI agents. Additionally, the platform may offer user feedback mechanisms, where users can rate their experiences and provide qualitative insights. This data is invaluable for developers to make data-driven decisions on how to improve agent performance and tailor their services to better meet user needs.  https://agentlayer.xyz/faq |
| Akshare  https://akshare.akfamily.xyz  (Manli) |  | AkShare is an open-source financial data interface library based on Python/Matlab. It meets the needs of financial data scientists and enthusiasts in obtaining financial data | provide a set of open-source tools for collecting, cleaning, and implementing fundamental data, real-time and historical market data, and derivative data of financial products such as stocks, futures, options, funds, forex, bonds, indices, and digital currencies. | GitHub homepage:  [https://github.com/jindaxiang/akshare](https://link.zhihu.com/?target=https%3A//github.com/jindaxiang/akshare)  Akshare document address (Crpyto):  https://akshare.akfamily.xyz/data/dc/dc.html | With free and quick access to data, databases such as Tushare and Baostock generally cannot obtain the financial report data released on the same day, while AKShare can obtain data from major authoritative financial websites. |
| Alpha Vantage  https://www.alphavantage.co  (Manli) |  | Alpha Vantage provides realtime and historical financial market data through a set of powerful and developer-friendly data APIs and spreadsheets. From traditional asset classes (e.g., stocks, ETFs, mutual funds) to economic indicators, from foreign exchange rates to commodities, from fundamental data to technical indicators, Alpha Vantage is your one-stop-shop for enterprise-grade global market data delivered through cloud-based APIs, Excel, and Google Sheets.  The Alpha Academy: There is an increasing amount of educational content developed by experts in industries such as quantitative investment, machine learning, software development, and blockchain technology.  https://www.alphavantage.co/academy/ | Realtime & historical stock market data APIs  Options, forex, crypto & other asset classes  60+ technical & economic indicators  Market news API & sentiments  Global coverage | Alpha Vantage document address (Crpyto):  https://www.alphavantage.co/documentation/#digital-currency  But each token only has 25 free trial opportunities per day. | Alpha Vantage also provides libraries for commonly used programming languages such as Python and R, making it convenient for developers to process data and perform policy backtesting. |
| Alltick  [https://alltick.co](https://alltick.co/)  (Manli) |  | Provide accurate and real-time market data, covering foreign exchange, stocks, cryptocurrencies, commodities, and more, to ensure that exchanges and trading platforms can provide timely market information to customers, improve user experience and trading efficiency.  https://alltick.co | Can get real-time cryptocurrency quotes API  Can get K-line data API for cryptocurrencies | GitHub:  https://github.com/alltick/alltick-realtime-forex-crypto-stock-tick-finance-websocket-api | Easy-to-use and user-friendly free open-source stock API, Hong Kong stock API, US stock API, Shanghai and Shenzhen stock API, A-share API, forex API, commodity precious metals API, cryptocurrency API, and other real-time market data.  And support Python、Java、GO、PHP |
| **Cryptohopper**  https://www.cryptohopper.com/zh-cn  (RJ) | 类型1  步骤123 | This platform offers a user-friendly interface and allows users to create custom trading bots using AI algorithms. Traders can use Cryptohopper's visual editor to design bots with specific trading strategies without requiring extensive coding knowledge. | Staying alert is more essential than ever. With Cryptohopper, you’re active 24/7 on all markets. Starting with automated trading is easier than ever with our marketplace. And A.I. makes it possible to create a self-learning and adapting trading bot, in an easy way  Your exchange is where your funds are located. With Cryptohopper you can manage all your exchange accounts and trade from one place.  Practise daring new strategies risk-free while mastering Cryptohopper’s tools. Even Backtest your bot and your strategies, so you can keep tweaking. | Understanding the way OAuth2 works can help create and debug applications which use Cryptohoppers’s API. To use OAuth, an application must   * Obtain grant tokens to act on behalf of a user account. * Switch grant tokens for access tokens. * Authorize all HTTP requests it sends to Cryptohopper’s APIs.   https://www.cryptohopper.com/api-documentation/how-the-api-works | Dollar Cost Averaging  Dollar Cost Averaging allows you to double or triple up on an investment that went sour. By using DCA, you can mitigate any potential bags by bringing down the weighted average price. [*Read more*](https://docs.cryptohopper.com/docs/explore-features/dca/)  Short selling  Short sell your coins to mitigate a sudden drop. Track your coins to the bottom and only buy them back when they show signs of recovery.[*Read more*](https://docs.cryptohopper.com/docs/explore-features/shorting/)  Triggers  Respond to the rise and fall of coins and make sure that you respond to early signs of bear markets. Create customized actions ranging from notifications to sell orders to ensure your portfolio is safe 24/7. [*Read more*](https://docs.cryptohopper.com/docs/configuring-your-hopper/triggers/) |
| [**Auto-GPT-Crypto-Plugin**](https://github.com/isaiahbjork/Auto-GPT-Crypto-Plugin)  https://github.com/isaiahbjork/Auto-GPT-Crypto-Plugin  （RJ） | 步骤1 2 | The AutoGPT Crypto Plugin is a software tool that enables traders to connect their Crypto wallet or exchange to Auto-GPT. | * Get ETH Balance * Get Wallet Token Holdings * Get Wallet NFT Holdings * Get Coin/NFT of The Day * Create Wallet * Send ETH & MATIC * Get New Tokens From Dextools * Telegram Crypto Groups Listener * NFT Metadata * Transaction Data * Signals (Pivot Points, Moving Averages, Technical Indicators) * CoinMarketCap Airdrops * Currency Convertor * Recent Crypto Social Feed | Clone the Auto-GPT-Crypto-Plugin repository，Add Crypto configuration settings |  |
| Fetch.ai  https://fetch.ai/blog/autonomous-agents | 步骤2 3 | The aggregator for building AI agent.  Choose one agent from N.  Help you manange different AI agent to do one task. (task distribution) | Manange diffrent AI agent.  Be the AI agent aggregator.  Choose one agent from N. | It can be done by call the api and use the website.  https://fetch.ai/blog/autonomous-agents |  |
| Alchemy  (Sa Rula)  https://www.alchemy.com | 步骤1  步骤2  步骤3 | Alchemy provides the leading blockchain development platform powering millions of users in 197 countries worldwide. Our mission is to provide developers with the fundamental building blocks they need to create the future of technology. | * Embedded Accounts * Account Abstraction Infrastructure * Account Contracts * Transact * Transaction Simulation | https://docs.alchemy.com/reference/api-overview  https://docs.alchemy.com/reference/feature-support-by-chain  Alchemy is the platform layer needed to empower developers to build great applicationsthat tap into the blockchain revolution.  Developers get access to Alchemy’s web3 developer platform, a central hub for all things blockchain development. Embedded with powerful tools, Alchemy simplifies dApp development, saving you countless hours of time. | Each application has reserved dedicated [Throughput](https://docs.alchemy.com/reference/throughput), measured in Compute Units per Second. Applications can greatly exceed their dedicated throughputs based off of elastic demand in the system.  https://docs.alchemy.com/reference/compute-units |
| Chainlink  (Sa Rula)  https://chain.link | 步骤1  步骤2 | Chainlink is the industry standard for building, accessing, and selling oracle services needed to power hybrid smart contracts on any blockchain. Chainlink oracle networks provide smart contracts with a way to reliably connect to any external API and leverage secure offchain computations for enabling feature-rich applications. Chainlink currently secures tens of billions of dollars across DeFi, insurance, gaming, and other major industries, and offers global enterprises and leading data providers a universal gateway to all blockchains.  https://chain.link/faqs#what-is-chainlink | * Asset Tokenization * Financial Service * DeFi * Gaming * NFT Collectibles * Climate Markets * Enterprise * Insurance | Github: https://github.com/smartcontractkit  Docs: https://docs.chain.link  Chainlink Functions BETA is a serverless developer platform for fetching data from any API and running custom compute using Chainlink’s highly secure and reliable network. | https://chain.link/faqs#how-will-chainlink-scale  Through offchain reporting and [threshold signatures](https://blog.chain.link/threshold-signatures-in-chainlink/), Chainlink oracle networks can scale to thousands of secure nodes within a network. Instead of each node making their own onchain transaction for each update, node responses are aggregated offchain, and only a single transaction needs to be submitted onchain. |
| Moralis  (Sa Rula)  https://moralis.io | 步骤2  步骤3  步骤4 | Moralis is a leading Web3 development platform that offers everything a user needs to create, launch and grow great decentralized applications (dapps) in one place. It is the quickest method to create and deploy dapps on Ethereum, BNB, Polygon, Avalanche, Fantom, and more.  https://moralis.io/faq/what-is-moralis/ | Moralis provides a singular framework for Web3 developers, reducing development time, cost and complexity with next-gen tools that unify different chains.  https://moralis.io/faq/what-does-moralis-do/ | https://github.com/MoralisWeb3 (Github)  Moralis provides enterprise-grade Web3 APIs that connect to any tech stack. Moralis is fully compatible with your favorite web3 tools and services, allowing you to frontend development. | Developers can seamlessly integrate our APIs into their existing tech stacks. All core aspects of Web3 data are indexed, and with our APIs, you can access this data when building blockchain applications. Additionally, all Moralis tools are cross-chain compatible, enabling you to build on numerous EVM networks such as Ethereum, BNB Chain, Polygon, or even beyond on chains like Aptos and Solana.  Web3 data: https://moralis.io/api/ |
| CoinMarketCap API  https://coinmarketcap.com/api/  （Zenith Liang） | 步骤 2 | CoinMarketCap API provides a comprehensive set of data for the cryptocurrency market, including real-time and historical data for thousands of cryptocurrencies. It is a widely-used resource for obtaining accurate and up-to-date information on the market's current state. | **Market Data**: Provides data on market capitalization, prices, trading volume, and rankings for cryptocurrencies.  **Historical Data**: Access to historical price data and market trends.  **Market Insights**: Offers insights into market movements, coin trends, and comparative analysis. | **How to Call**:   * The API can be accessed via RESTful calls using an API key. It offers endpoints like /v1/cryptocurrency/listings/latest for the latest market data and /v1/cryptocurrency/quotes/latest for real-time quotes. | **Performance Parameters**:   * **Data Accuracy**: High accuracy with data aggregated from multiple exchanges. * **Rate Limits**: Depends on the subscription plan, with higher tiers offering more requests per minute. * **Latency**: Optimized for low-latency access to ensure real-time data availability. |
| CoinGecko API  https://www.coingecko.com/learn/crypto-portfolio-tracker-free-template （Zenith Liang） | 步骤 2  步骤 3 | CoinGecko API is a versatile and comprehensive API providing data on cryptocurrency prices, market data, volume, and more. It is known for its extensive coverage of cryptocurrencies and various market metrics. | **Functionality and Uses**:   * **Market Data**: Includes price data, volume, market cap, and trading pairs. * **Additional Data**: Provides information on exchanges, derivatives, and decentralized finance (DeFi) data. * **NFT Data**: Offers data on NFT collections, including floor prices and trends. | **How to Call**:   * The API uses RESTful calls and requires an API key. Key endpoints include /coins/markets for market data and /coins/{id}/market\_chart for historical data. | **Performance Parameters**:   * **Coverage**: Extensive coverage including lesser-known coins and tokens. * **Rate Limits**: Free tier offers limited requests; higher tiers allow more frequent access. * **Data Refresh Rate**: Frequent updates ensure up-to-date data is available. |
| Binance API （Zenith Liang） | 步骤 1  步骤 4 | The Binance API provides access to a range of services offered by the Binance cryptocurrency exchange. It includes functionalities for trading, market data retrieval, account management, and more. | **Functionality and Uses**:   * **Trading**: Execute trades, including market, limit, and stop-limit orders. * **Market Data**: Access real-time market data, including prices, depth, and historical trades. * **Account Management**: Manage account balances, retrieve account information, and transaction history. | **How to Call**:   * The API is RESTful and WebSocket-based, requiring an API key. Key endpoints include /api/v3/ticker/price for price data and /api/v3/order for trading operations. | **Performance Parameters**:   * **Scalability**: Handles a high volume of requests, suitable for high-frequency trading. * **Security**: Offers features like IP whitelisting and two-factor authentication. * **Rate Limits**: Specific limits per endpoint; generally high capacity for professional use. |
| PaaL  https://www.paal.ai  （choi） | 步骤2，3 | By integrating with Telegram and Discord, PaaL offers users a range of features including token data analysis, fundamental and economic analysis of tokens, and text-to-image generation. The PaaL Bot can also be integrated into group chats to provide automatic replies to certain information. | * **Personalized AI Bot Creation**: Users can design AI Bots that are unique to their requirements. * **Multi-platform Deployment**: Deployment is supported across Telegram, Discord, and custom apps. * **Business Solutions**: Provides extensive solutions for business and project needs. * **Information**: Automates research, analysis, and knowledge management. * **Communities**: Enhances community engagement and information delivery. * **Utilities**: Applies market actions using ecosystem tools based on information. * **AI Assistance**: Offers strong AI support customizable for various groups and individuals. * **Crypto Trading Plugin**: Integrates advanced crypto trading capabilities with Paal X Wallet features. * **AI Token Sniper**: Identifies potential tokens using AI, combining blockchain and social data for investment advice. | Users can integrate AI Bots into platforms like Telegram, Discord, or their own apps through PaaL AI's customized solutions, achieving automated and personalized services. | Demonstrating strong market performance with significant trading volume and market capitalization, along with a broad user base and active communities, PaaL AI affirms its leading position in the AI sector. |
| GraphLinq  https://graphlinq.io  （choi） | 步骤3 | GraphLinq offers a method to deploy and manage automation processes without the need for programming, allowing users to easily set up automated tasks through a visual interface. | * **Automated Process Deployment**: Users can deploy various automated functionalities, such as periodically fetching Bitcoin prices from Coingecko and pushing them to a Telegram Bot. * **Visual Process Creation**: Users can create and design automated processes by dragging and dropping nodes in a graphical interface. * **GraphLinq Engine Execution**: An integrated engine is responsible for executing the automated tasks defined by the users. | * Users construct automated processes by selecting templates, logical blocks, and connecting them in a graphical manner. | GraphLinq emphasizes ease of use and visual operation, reducing the need for programming knowledge. |
| Band protocol  (Muye)  https://www.bandprotocol.com/ | 步骤3 | Band Protocol is a cross-chain data oracle platform that aggregates and connects real-world data and APIs to smart contracts. The network is designed to modularize and offload the heavy and resource-intensive tasks (i.e., fetching data from external sources aggregating them) from the smart contract platforms onto itself. This not only prevents such tasks from congesting or causing high transaction fees on the destination network, but the same data points can be packaged, used, and verified efficiently across multiple blockchains.  https://docs.bandchain.org/introduction/overview | * **Decentralized Standard Price Reference:** With the next major upgrade of our Standard Dataset, we will be adding a new mechanism that will allow anyone to send price update transactions to our oracle contract themselves, all secured and verified by our lite client verification architecture and a challenge mechanism. * **Verifiable Random Number Generators:** By providing a tamper-proof method of generating unpredictable yet verifiably random values, this upcoming addition to Band's oracle functionality will greatly extend the range of applications and use cases that Band can support. Examples of such areas are: * NFTs * gambling * randomized selection   https://docs.bandchain.org/introduction/example-use-cases | **Step 1. Install Golang**  **Step 2. Get BandChain source code**  **Step 3. Verify your installation**  https://github.com/bandprotocol/chain | **Scalability**: Capable of handling a large number of data requests due to its multi-chain framework.  **Security**: Employs decentralized validation and aggregation mechanisms to ensure data integrity.  **Customization**: Offers flexibility in choosing data sources and aggregation methods. |
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