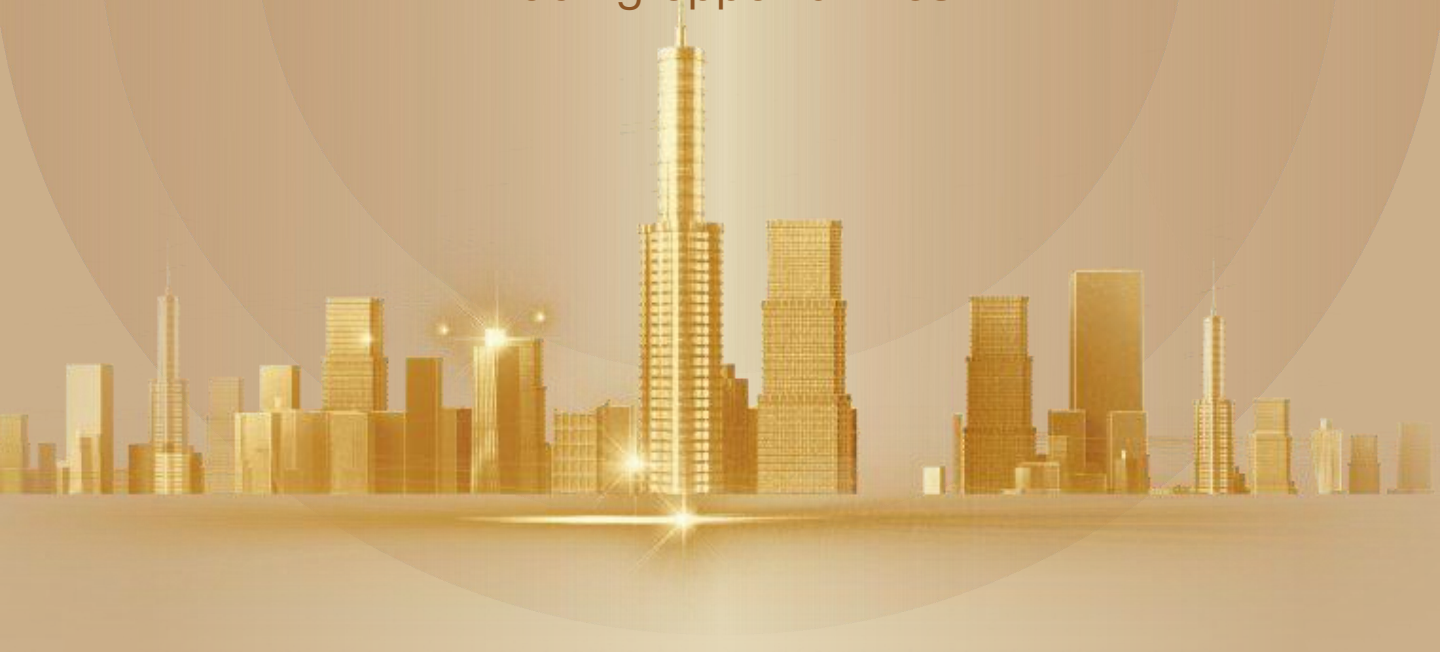
Global leading trading and
GPT analysis technology

Stockopia
Stock trading platform

Let every trader enjoy the most extensive Stock trading opportunities



white paper

Preface

Stock platform refers to an online trading platform used for Stock transactions. Stock (Stock) refers to the exchange transactions between the currencies of different countries. Stock platforms are typically provided by Stock brokers (Forex Broker), through which investors can buy and sell various currency pairs. The platform provides functions such as real-time quotation, transaction execution, account management and investment analysis. Stock platform trading is usually contracts for difference (CFD) trading. A CFDS is a financial derivative that allows investors to trade by predicting rises or falls in asset prices without actually owning the asset.

Different countries and regions have different Stock market regulators, such as CFTC and NFA in the US, FCA in the UK, ASIC in Australia, etc. Stockopia The Stock trading platform provides full company information disclosure on its official website, including the registration place, time of establishment, affiliated company, regulatory information, etc. In addition, Stockopia Stock trading platform discloses the trading rules, fee structure and other relevant information to ensure that investors clearly understand the trading rules and fees, and avoid potential manipulation or deception. This information helps you understand the legitimacy and transparency of the Stockopia forex trading platform.

At the same time, the Stockopia Stock trading platform provides a wealth of trading tools and resources, such as real-time charts, technical indicators, economic calendar and market analysis, to help investors make informed trading decisions. Stockopia The security and stability of the Stock trading platform is reflected in the trading items, allowing traders to conduct directly trade with the liquidity providers of the trading market, rather than going through the broker, providing a lower spread and enjoy faster transaction execution speed.

Stockopia The significance of the Stock trading platform is to provide an instant platform for Stock traders to easily trade. Through this platform, traders can view the instant transaction price and buy and sell them. Traders can also customize their own Stock trading platforms based on demand. In addition, risk management tools, decision support tools, Stock news, complete set of background management system, very strategic, friendly interface design, information system and so on all have external ideas and friendly use environment, which provide convenience for customers and partners to use.

Catalogue

1.1 The rise of international transactions

The earliest trading of Stock appeared in ancient times. During the Codex period, there were "exchangers" who mainly helped others exchange currency and then charged commissions or fees. These people occupy a small corner of the city, or have stalls outside the temples.

Around the 4th century, the Byzantine government controlled a company that monopolized Stock trading. In 1472, Italy founded a pawnshop, and the world's first truly formal "bank" —— The Bank (BMPS) —— the oldest existing bank in the world, which is still operating today.

In the 15th century, in order to meet the currency exchange needs of textile merchants, the Medici family (Medici) opened banks abroad and began to use "current account books" to handle transactions. Such books can show Stock accounts, and domestic currency accounts that have contacts with foreign banks. Amsterdam remained active in the 17th and 18th centuries. British and Dutch agents and businessmen have very frequent Stock exchanges. In the 1850s, a company called Alexander Brown & Sons began trading Stock, and it was seen as a leading market player.

The pioneers in Stock trading also included permission in the 1880s.M.Do Espirito Santo de Silva 。In 1880, a monetary system with gold as the standard currency was formed. As a result, many of us think this year as the beginning year of modern Stock. From 1899 to 1913, Stock reserves increased by 10.8%, while gold reserves grew by only by 6.3%, symbolizing the increasing importance of emerging Stock markets.

Chapter 1: Background introduction

In 1902, that year, there were two Stock brokers in London. In 1913, almost half of the global Stock transactions were conducted in the pound sterling. This is of great significance to the formation of the British capital market. The number of currency banks in the UK rose from three in 1860 to 71 in 1913. Although the pound almost dominated Stock trading, Britain itself was absent in the early 20th century. The most active centers of Stock trading are indeed in Paris, New York and Berlin.

London and the entire British Empire were relatively silent before 1914. It was not until 1914, when the American Federal Reserve system was established, that the American banking system began to print its own currency, the dollar. In the 1920s, some families began to grow into important figures in the Stock industry. In 1930,. The Bank for International Settlements was established in the city of Basel, Switzerland. The bank was designed to provide financial support to newly independent countries and countries facing temporary break-even deficits.

After World War II, the Bretton Woods Agreement was signed. Under the agreement, currencies can only fluctuate against the dollar within 1% around the legal exchange rate. Later, President Nixon repealed the Bretton Woods agreement, and the fixed exchange rate expired. Since then, a floating exchange rate system has begun.

From 1972 to March 1973, the Stock market was closed due to the impact of the Bretton Woods Agreement and the European Joint Floating Agreement.1973 was a real historical turning point in the modern Stock market. In this year, the era of exchange rate constraints, bank trading and restricted Stock trading ended, and the market began to enter the era of comprehensive floating exchange rate.

Reuters (Reuters) introduced electronic displays in 1973, replacing the old way the telephone and telegraph made trade offers. In the mid-1980s, before the advent of the Internet, a form of electronic forex trading became popular, the "Reuters Dealing" developed by Reuters. By today's standards, the system was very backward, but at the time, it was very advanced. It's more like a real-time shut able network communication system. If the network is not invented, the system may still be in use.

In the mid-1990s, the Stock market was outside of banks and businesses. It was not until the emergence of the Internet and the development of electronic technology that online platforms and Stock trading began to open to a wider range of retail traders. In the late 1990s, personal capital began to actively participate in the Stock market. Since online retail platforms emerged in 1999, and automated trading has become common in retail transactions. In the early 2000s, retail forex evolved again, with traders able to program their own exclusive intelligent trading systems (EA) and signals on an open platform.

Now the Stock market has developed into a financial market with 24-hour trading and a daily trading volume of us $6 trillion. As the most liquid market in the world, its scale is far larger than the global stock market, futures and other financial commodity markets. As the most "qian clean" and the most fair and transparent speculative market, I believe that more and more investors will participate in it.

1.2 Current situation of the world exchange rate market

1.2.1 Volatility continues

Recently, the global Stock market has fluctuated greatly. Currencies in some countries have fallen against the dollar, especially in currencies such as the Japanese yen and the Argentine peso. The reason is that in addition to the shadow of the Fed's rate hike has not completely dissipated, some other complex factors have also exacerbated the volatility in the Stock market.

On August 15, the dollar hit a high in more than a month, and the yen fell to Y 145.50, the lowest since November 2022. So far in August, the euro has remained above 1.1000. In addition, the exchange rate of the pound, Australian dollar, Russian ruble, Argentine peso and other currencies also fell in different ranges.

First, as the domestic inflation problem was eased but not fully resolved, the Fed continued to raise interest rates, increasing the interest rate spread over other currencies. On July 26, the Federal Reserve raised interest rates for the 11th time in the current rate hike cycle. Although the rate increase has shrunk to 25 basis points, the cumulative rate increase has reached 525 basis points, and the federal funds rate has risen from 0% to 0.25% to 5.25% to 5.50%.

In terms of inflation, the US consumer price index rebounded in July from 3% to 3.2% in June, ending a 12-month decline; core inflation edged down 0.1 percentage point to 4.7%, still at a high level. Us producer prices rose more than expected in July and service prices rebounded at their fastest pace in nearly a year. As Fed Chairman Colin Powell has said, there is still a long way to go to achieve the Fed's target of cutting inflation down to 2%. There is no full consensus on whether the Fed will continue to raise interest rates in the future, but expectations that the Fed will start the cycle this year will fall, adding to fears that the Fed will keep interest rates high for longer.

As other central banks raise interest rates, the Bank of Japan has consistently adhered to its ultra-loose monetary policy, keeping the yen in the forefront. Last September, when the dollar broke above 145 against the yen, Japan intervened in the currency market and the Ministry of Finance bought the yen. But this year, the dollar is up nearly 10% against the yen. With the yen pushing psychological again, market traders are preparing for Japan's renewed intervention in the currency market. One analyst said, " I wouldn't be too surprised if we see some news from the Bank of Japan in the next week or two. Especially if the yen starts to move towards 147, they will start to take some steps to boost the yen."

Second, differences in economic fundamentals lead the market to use the dollar as a haven.

Despite all the concerns about the US economy, the market's view of the dollar as a safe haven has not changed fundamentally. Markets remain concerned about the health of the global economy, while US economic activity continues to grow moderately, unemployment remains low and an annualized rate of 2.4% in the second quarter.

The Atlanta Fed's GDPNow model expects real GDP to grow by 5% in the third quarter, driven by real personal consumption spending and real domestic private investment. In July, Americans expected inflation in the next year, three years and five years to fall to 3.5 percent, 2.9 percent, according to a survey released by the New York Federal Reserve.

ING analyst Chris Turner said in a report that the dollar was supported by strong U. S. economic activity data. In contrast, some other countries and regions have shown poor economic performance. The euro zone economic growth but the risk of stagnation remains, the largest German economy hovering between stagnation and recession; the British think tank predicted that under the triple factors of "brexit", the impact of the epidemic and Ukraine crisis, the British economy will fall into the "low growth trap" in the next five years; in Asia, South Korea fell out of the top 10 last year, this year the economic decline, Japan's domestic demand is weak, but also brings uncertainty to the continuous economic recovery.

In addition, political turmoil and geopolitical risks have impacted the currencies of some countries.

1.2.2 of the market

Economists at HSBC said the latest data showed the most likely "soft landing" in the US and global economies. This suggests a rise in risk appetite, so the dollar is likely to weaken at the end of the year and early 2024. For other short-term factors that affect currency volatility, investors are also waiting for a new "catalyst" to judge the direction of future volatility and its space.

Since 2022, most countries have joined the queue of rising global inflation and the Federal Reserve starting the fastest rate hike in history. In general, the economic fundamentals of Asian countries and the differences in the direction of monetary policy and interest rate levels with the United States are the dominant factors in the trend of monetary interest rates.

Armenia has been raising interest rates since December 2020, adding 625 basis points to 10.5% by June 2023, with GDP growth of 12.6% in 2022. Similarly, Georgia started to raise interest rates in March 2021, by 250 basis points to 10.5% by June 2023, with GDP growth of 10.1% in 2022, making Armenia the two fastest growing economies in Asia. Good economic fundamentals, tighter monetary policy ahead of the Fed and higher interest rates than the US provide the basis for the two currencies to appreciate against the dollar under a floating exchange rate system.

South Korea began raising interest rates in August 2022, and raised the benchmark interest rate by 300 basis points to 3.5% by the end of June 2023, the highest level since 2010. However, the rate hike in South Korea is still slower than that of the US, and there is still an interest rate gap between the United States and South Korea. At the same time, South Korea's trade in goods has been almost continuous deficit since the end of 2021, and the economic fundamentals are under great downward pressure. The won depreciated by 6% in 2022 and fell by a further 4% in the first half of 2023. In Indonesia, from August 2022 to the end of June 2023, the cumulative rate increase is 225 basis points to 5.75%. Meanwhile, as an important grain exporter, higher commodity prices support Indonesia's trade surplus at a historically high level. The Indonesian rupee lost 8.4% in 2022 and rose 3.9% in the first half of 2023.

Unlike most countries, which follow the US in raising interest rates, Japan remains negative, intervening in the yen only by adjusting its yield curve control plan and selling Stock reserves. From August 2021, Japan has basically sustained an international trade deficit, and its economic growth rate is 1% in 2022, only higher than that of Hong Kong in developed economies in Asia. The overall loose monetary policy environment and the stressful economic recovery process pushed the yen to a record low in October 2022.

1.3 Appearance and trend of GPT technology

Generative Pre-trained Transformer (GPT) series is a very powerful pre-training language model proposed by OpenAI. This series of models can achieve amazing results in very complex NLP tasks, such as article generation, code generation, machine translation, Q & A, etc., and complete these tasks without supervised learning and model fine-tuning. For a new task, the GPT requires only very little data to understand the requirements of the task and to approach or exceed the state-of-the-art method

Of course, such a powerful function can not be solved by a simple model. The training of GPT model requires a large training corpus, super model parameters and super computing resources. The model structure of GPT series adheres to the idea of constantly stacking transformer, and completes the iterative update of GPT series by constantly improving the scale and quality of the training corpus and the number of the parameters of the network series. GPT also proves that the ability of the model can be continuously improved by continuously increasing the model capacity

1.3.1 GPT-1: Unsupervised learning

Before GPT-1 (in the same year as ELMo), traditional NLP models often use large amounts of data to train supervised models on task-related models. However, this supervised learning task has two disadvantages:

1. A large amount of annotation data is required, and high-quality annotation data is often difficult to obtain, because in many tasks, the label of the image is not unique or the instance label has no clear boundary;

2. A model trained on one task is difficult to generalize to other tasks. This model can only be called a "domain expert" rather than truly understanding the NLP.

- Natural language reasoning (Natural Language Inference or Textual Entailment): judge that two children are inclusive relationship (entailment) 0 contradictory relationship (contradiction), or neutral relationship (neutral);
- Question and common sense reasoning (Question answering and commonsense reasoning): similar to multiple choice, input one article, one question and if a thousand candidate answers, output for the predicted probability of each answer;
- Semantic similarity (Semantic Similarity): It is relevant to judge whether two sentences are semantic listed
- Classification (Classification): Determine which category the input text is specified..
- So the unsupervised learning is called universal pre-training (Generative Pre-training, GPT)

GPT-1 used the BooksCorpus dataset, which contains books not published. This data set is selected for two reasons: 1. The data set has a longer context dependency, enabling the model to learn a longer-term dependency; 2. Because these books are not published, it is difficult to see in the downstream data set, and can better verify the generalization ability of the model.

GPT-1 uses a 12-layer transformer with a masked self-attention head. The use of the mask makes the model out of future information, and the resulting model is more generalized. Of the 12 tasks with supervised learning, GPT-1 outperformed the state-ofthe-art model on nine tasks. In the zero-shot task where data was not seen, the GPT-1 model was more stable than the LSTM-based model, and the performance of GPT-1 gradually improved with the increase of training times, indicating that GPT-1 has a very strong generalization ability and can be used in other NLP tasks unrelated to the supervised task. GPT-1 demonstrates the powerful ability of transformer to learn word vectors, and learning the downstream tasks based on the word vectors obtained by GPT-1, can enable the downstream tasks to achieve better generalization ability. For training on downstream tasks, GPT-1 often requires only simple fine-tuning to achieve very good results.Although GPT-1 has some effects in non-fine-tuned tasks, its generalization ability is far lower than that of fine-tuned supervised tasks, indicating that GPT-1 is only a simple field expert rather than a general linguist.

1.3.2 GPT-2: Multi-task learning

The goal of GPT-2 is to train the word vector model with stronger generalization ability. It does not innovate and design the structure of GPT-1 network excessively, but only uses more network parameters and larger data sets.

The core idea of the GPT-2

The learning goal of GPT-2 is to do supervised tasks using unsupervised pre-trained models. Because of the timing of text data, an output sequence can be expressed as a product of a set of conditional probabilities:The above formula can also be expressed as, its practical meaning is based on the known above prediction of unknown below, so the language model can be expressed as. For a supervised task, it can be modeled as a form of. In decaNLPI8], their proposed MQAN model can uniformly model 10 types of tasks, such as machine translation, natural language reasoning, semantic analysis, and relationship extraction, into a classification task, without having to design a separate model for each sub-task.

Based on the above idea, it is believed that when the capacity of a language model is large enough, it is enough to cover all supervised tasks, that is, all supervised learning is a subset of the unsupervised language model. For example, when the model trained Micheal Jordan is the best basketball player in the history "corpus language model 2, it also learned (guestion:" who is the best basketball plaver in the history?”, answer. The Q & A task for the "Micheal Jordan".

The core idea of GPT-2 is summarized as follows: any supervised task is a subset of the language model. When the capacity of the model is very large and the data amount is rich enough, other supervised learning tasks can be completed only by training the language model learning.

1.3.3 GPT-3: Massive parameters

GPT-3 is the most powerful language model at present. Just need zero-sho or few-shot, GPT-3 can perform well in downstream tasks. In addition to several common NLP tasks, GPT-3 is also surprised on many very difficult tasks, such as writing articles that are difficult to distinguish, even writing SQL query statements, Reac domain JavaScript code, etc.

In-context learning

In-context learing is an important one-person concept of Shao in this paper. To understand in-context learning, you need to understand metaleaming (meta-learning) first. For a task with few samples, the initialization value of the model is very important. From a good initialization value as the starting point, the model can learn as soon as possible, so that the obtained results can approach to the whole domain optimal solution very quickly. The core idea of meta-learning is to find a suitable initialization range through a small amount of data, so that the model can be quickly fitted on a limited data set, and obtain good results.

MAML (Mode-Agnostic Meta-Learing) algorithm 101 Normal supervised learning is a batch of data packaged into a batch for learning. However, meta-learning is to package tasks into batch, each batch into support set (support set) and queryset (queryset), similar to the training set and test set in the learning task.

For a network model, whose parameters are expressed as, its initialization value is called meta-initialization. MAML's goal is to learn a set of meta-initialization that can be quickly applied to other tasks. The iteration of MAML involves two parameter updates, namely, inner cycle inner loop) and outer cycle (outer oop). The inner loop is the rapid learning and adaptation of specific tasks according to the task label, while the outer learning is the update of the meta-initialization. Intuitively, I use a set of meta-initialization to learn multiple tasks. If each person learns the tasks well, this set of meta-initialization is a good initialization value, otherwise I will update this set of values. The present experimental results show that there is much work to do in learning from a generic word vector model.

1.3.4 . GTP-4- - - -100 trillion-yuan parameter

The WSE-2 microarray and the GPT-4 model

Two weeks ago, Wired magazine published an article containing two important news items:

First, Cerebras once again made the largest chip on the market, the Wafer Scale Engine Two (WSE-2). It's about 22 centimeters and has 2.6 trillion transistors, and Tesla's brand-new training chip has just 1.25 trillion transistors.

Cerebras Found a way to effectively compress the computing power, so the WSE-2 has 850,000 cores (computing units), while the typical gpu has only a few hundred. They also used a novel cooling system to solve the cooling problem, and created an efficient IO flow.

There are few super-professional, super-expensive, super-powerful chips like the WSE-2. Training on large neural networks is one of them. So Cerebras and OpenAI had a conversation.

This is the second news: Cerebras CEO Andrew Feldman told Wired magazine that " From the conversation with OpenAI, the GPT-4 will have about 100 trillion parameters.(.....) But it may be just a few years Stockopiay.

From GPT-3, there has been much anticipation for OpenA and its next version. Now Stockopia knows it will come out in a few years, and it will be very big. It will be 500 imes the GPT-3.

1.4 Stockopia, follow the Stock development type

With the rapid development of economic globalization and international trade, there are more and more Stock transactions.

Spot Stock transaction refers to the Stock transaction method in which the buyer and the seller conduct delivery within two business days after the transaction. The procedure of spot Stock trading generally includes inquiry, quotation, transaction, confirmation, delivery of these five steps. Stock spot transaction is the most basic and common Stock transaction in the Stock market, which can meet the temporary capital needs of investors, avoid exchange rate risks, and speculate profits.

Forward Stock transaction is the transaction method in which the buyer and seller sign a Stock contract in advance to agree the delivery at a certain time in the future. Stock contract includes the delivery date, amount, exchange rate, etc. Forward Stock trading can meet the needs of different investors, for example, through the forward can be conducted for asset preservation, speculative profit, arbitrage trading and so on.

A swap transaction is a Stock transaction that sells or buys the same currency at the same time, but buys and sells for different delivery terms. The purpose of trading swaps is to avoid losses from currency movements.

The so-called derivative Stock trading mode is the new Stock trading mode that emerged after the 1970s, which is derived on the basis of basic trading. Mainly includes Stock futures trading, Stock options trading, Stock margin trading.

To understand the Stock futures trading, you must first know what the futures are? Futures are the opposite of the cash payment and delivery, futures are trading in the goods of the future, the standardized goods of the future. Therefore, Stock futures trading is the trading of Stock (futures contract) at a certain time in the future. So why is there a way of trading contrary to spot?

This is because the futures have their own unique advantages. First, hedging, we can establish the futures and the spot market opposite position, hedging, especially for importers and exporters to sell Stock, extremely helpful, can lock up the income and risk, second, speculative profit, we can predict the trend of the futures market for speculative profit. Option, as the name implies, is a kind of power in the future. If the power to trade some financial assets in the future, as the power, it can choose the favorable direction for exercise on the maturity date after paying a certain fee (option fee). Therefore, the Stock option transaction is that the buyer of the option can get the right to buy and sell the Stock at the agreed price on the option day after paying the option fee. Therefore, forex options trading can provide us with a less costly and more refined way to manage risk.

1.5 Market pain point analysis

At present, Stockopia sees the rapid development of GPT technology and Stock and investment, but the market also has pain points. At the present stage, various kinds of underlying protocol projects emerge in an endless stream, but most of the underlying protocol projects are iterated on the basis of the traditional public chain, which has a certain gap with the standard of GPT 3.0. However, most of the teams carrying out GPT business are currently in the early stage of exploration due to the performance, application scope and stability of the underlying protocol. Although a large number of industrial applications can appear in the future, more than 98% of the projects will be eliminated by The Times. To sum up, the current market is limited by technical limitations, which mainly has the following problems:

- Low performance: Too low performance is one of the main challenges facing the market today. The GPT used in bitcoin theoretically can only handle up to seven transactions per second, with Ethereum slightly improved, but also far from meeting the app needs. For example, with a simple DApp, the app slows down Ethereum transactions and significantly increases transaction fees. Today's apps must be able to handle tens of millions of active users every day. In addition, some applications are only meaningful when they meet a certain transaction throughput, so the platform itself must be able to handle a large number of users. Long transaction delays can hinder user use, making applications built on the GPT much less competitive with existing non–GPT alternatives.

- High barriers to use: Today's GPT apps are built only for a handful of technicians who know how to use GPT, not for mainstream consumers. Almost all GPT applications require users to run GPT full nodes or light nodes. The high learning cost seriously hinders the process of GPT to the public. For example, based on CryptoKitties, it may be the most easy to use DApp ever, but it still requires the user to install the Metamask light wallet browser extension program, and users need to know how to safely buy the Ethers, and use it with Metamask, which greatly affects the user experience.

- High use costs: High use costs are another major obstacle to applications from becoming mainstream, and they also limit developers who need to be flexible to build free services. Compared to the Internet, the GPT technology should be able to support free applications. Making the GPT free to use is the key to its widespread adoption. A free platform will also enable developers and businesses to create valuable new services.

- Platform locking: In the early days of any computer technology, the relevant platform has a serious "platform locking" problem. Developers must first decide which GPT to adopt and then write the code for that particular platform, making it very difficult to switch applications to other GPTs. Developers do not want to be locked in a certain GPT technology, but need these applications to run on multiple platforms to improve the efficiency of development reuse.

In addition to the technical line, the project itself may also have many vulnerabilities / limitations:

◎ Inherent pain points in the overall environment

- Information island: the system between projects on the same chain is not interconnected, resulting in the separation of information between projects, and the information of the whole chain is not integrated. For ordinary users, the information opacity of major projects means that the difficulty of risk control increases, and it is a huge obstacle for the financing of the project parties and the penetration of institutional users.

- The credit of core platforms cannot be transmitted: the problem of information island leads to the indirect information of upstream platforms and core projects cannot be proved, while the credit ability of traditional financial instruments to transmit core projects is limited. The access conditions are relatively high, and the platform controlled by the project party has the problem of low credit rating. As a result, the credit of the core project is only transmitted to the primary market level, which cannot be cross-level transmission on the whole chain.

- Performance risk cannot effectively control: between project party and ordinary users, financing and institutions between payment and agreed settlement is limited by the participants of the contract spirit and performance will, especially involving multilevel service settlement, uncertainty factors, NFT project funds misappropriation, malicious default or operational risk.

◎ Industry unique dilemma

- High entry threshold: the core projects are characterized by high investment amount threshold, strong privacy and strong information asymmetry, and they have become a game for a small number of local rich investors. The investment amount of millions, tens of millions or even hundreds of millions of yuan greatly restricts the participation of individual investors. The majority of ordinary investors desperately want to have a fair, safe and efficient high-quality Pre-IPO, ICO, IDO, IEO space, in order to achieve their participation in the early investment of these projects and obtain high returns.

- Personal financing dilemma: financing difficulties have been troubling small and medium-sized users. The financing channels in the existing market are limited, it is not easy to be approved and the financing cost is high. The problems such as financing difficulties and heavy burden faced by individual users do not exist in isolation, but systemic problems: the assessment standards, evaluation system, fundraising mode and so on of the major platforms are actually based on the form of project operation. When this system connects with individual users, it cannot effectively assess the risks of small and medium-sized users, so it turns to simply appeals to high interest rates.

- Exit mechanism is not perfect: the lack of liquidity, exit difficulties have also become the biggest pain point of users. Due to the low listing probability and high volatility of various major projects, the traditional exit method of IPO and acquisition has been completely unable to meet the needs of users for liquidity. Both the project founders, institutional investors, and employee options holders are eager to have the opportunity to cash out their shares of the tokens before the project goes public.

- Poor information leads to fraud: after a high-quality project comes out, the market will appear a lot of disorderly price situation, and there are many fraud behavior. The popularity of the primary market is transmitted to the secondary market, and the powerful institutional users earn a lot of money, while ordinary users are encouraged by the market, and participate due to the poor information, easy to be harvested by the makers in the secondary market.

Based on the above pain point analysis, the market needs both a convenient, low-cost and flexible operation mode, and a credible, stable medium that can continuously generate revenue and improve the exit mechanism. The birth of Stockopia meets the market demand and provides a new opportunity for the market reform.

Chapter 2: Project Introduction

2.1 Stockopia Introduction

Stockopia, headquartered in Colorado, USA, is an international stock trading project. Stockopia is jointly built by the world's top technical institutions, financial trading institutions, investment funds, real businesses and top teams. It is the first CHATGPT manual + AI dual analysis. Control, improve customer profitability through personalized services, big data analysis and expert trading signals, aiming to provide global users with safe, stable, professional and convenient stock asset trading services without being limited to a specific exchange or location. , allowing traders to conduct stock trading on computers, mobile phones or tablets anytime and anywhere.

At the same time, the Stockopia platform has built a huge range of technical and ecological application scenarios in addition to the basic functions of trading, and is determined to provide the most professional and comprehensive services to project parties and investors. Benefiting from the active and hedging properties of the Japanese yen exchange rate, the Japanese market is the world's largest stock margin market. Tokyo, as one of the world's important financial centers on par with New York and London, has complete and advanced trading facilities and technology. Trading volume has consistently ranked among the top three in the global market.

Stockopia offers many useful tools and features to help traders trade more efficiently and accurately. For example, it provides real-time quotes, charts, technical indicators, and trading signals. These tools can help traders better analyze the market and make more informed trading decisions. In addition, Stockopia also provides GPT automatic trading functions. This means traders can write their own trading strategies and use Stockopia’s automated trading features to execute these strategies. This helps traders who don't have the time or ability to trade in real time to still participate in the market and make profits. It can be said that Stockopia is in a leading position in the world in terms of technology platform, product lines, security risk control system, operation and customer service system.

2.1.1 Project content

Short-term trading: The Stock market is one of the largest financial markets in the world, trading trillions of dollars a day. Forex trading is the purchase of one currency into another in the hope of a profit in currency fluctuations. Foreign x short-term trading refers to a short period of trading, usually no more than a day. In EA trading, short-term EA is a very common type. It mainly relies on fast in and fast out, high-frequency trading accumulated profit. However, the frequent buying and selling of short-term EA also has very high requirements on the order processing speed of the platform, and directly affects the execution of transactions. Stockopia Based on the goal of millisecond order execution, relying on the global 20 + ultra-high speed line independent server, the maximum aggregation of 1000 orders per second, and the data transmission stability is up to 98.75%.

Chapter 2: Project Introduction

Artificial intelligence and GPT machine learning: Stockopia Artificial intelligence and machine learning technologies are increasingly being introduced. These technologies can analyze huge amounts of data, identify market trends and trading opportunities, and provide traders with more accurate decision support. Through machine learning, platforms can gradually understand traders' preferences and behavior patterns, and thus tailor personalized trading advice to them.

Automated trading systems: Automatic trading systems are becoming an important trend in Stock trading. Traders can use the Stockopia to write algorithms that make the system automatically execute trading decisions. As a result, traders will no longer need to keep an eye on the market, but can focus on market analysis and strategy making to improve trading efficiency. Market order and listing, instant execution and trading from charts, stop loss orders and tracking stop losses, quote charts and trading history–all of these tools are left to your use.

Social trading platforms: The combination of social media and Stock trading is also a new trend. Stockopia Integrate social elements into trading, allowing traders to share trading strategies, exchange ideas, and learn from each other in the community. This interactive model can help Stockopia learn trading skills faster, while also providing more opportunities for experienced traders to communicate.

Mobile trading and smart applications: Mobile trading has become a part of modern forex trading. The Stockopia platform's smart application allows traders to trade anytime, anywhere, no matter where they are. This convenience allows traders to respond to market changes more promptly and capture trading opportunities.

Data security and privacy protection: With the improvement of digitalization degree, data security and privacy protection have also become a problem that cannot be ignored by Stock platforms. Stockopia More security measures have been taken in data storage and transmission to ensure that traders' personal and transaction information is fully protected.

2.2 Operating mechanism

The Stock market is composed of a variety of elements, corresponding to the overall factors, Stockopia has formed an effective operation mechanism.

1. Supply and demand mechanism

The supply and demand relationship of Stock is the basis of the formation of the market exchange rate, and the exchange rate in turn regulates the supply and demand of Stock.

Due to the complex composition of the participants in the Stock market, the buyers and sellers participating in the Stock transactions have different purposes, so Stockopia reveals the supply and demand relationship will start from the specific analysis of each trader. Stockopia Mainly communicate with the central bank, Stock banks, Stock brokers and Stock market customers, for traders to create five major transactions or supply and demand relations in the Stock market.

2. Exchange rate mechanism

The exchange rate mechanism refers to the connection and interaction between the rise and fall of the exchange rate and the change of the supply and demand relationship of Stock in the Stock market, that is, the change of the exchange rate will cause the change of the supply and demand of Stock.

In general, in the setting of Stockopia, a higher exchange rate means that the buyer of Stock will have a higher cost, which will reduce the demand of Stock, and lead to the relative excessive amount of Stock supply and the decline of the exchange rate. When the exchange rate drops to the equilibrium point or below the equilibrium point, the demand for Stock will increase rapidly, restoring the supply and demand relationship to a new equilibrium state and making the exchange rate rise. This dialectical relationship between Stock supply and demand and exchange rate has become the realization mechanism for Stockopia and the central banks of various countries to pursue the goal of balance of international payments and promote the healthy growth of the national economy. It can be said that Stockopia makes use of the functions of the central bank in trading Stock in the Stock market, adjusting the actual level of the exchange rate, improving the supply and demand relationship in the Stock market, realizing monetary policy and promoting the sound development of the national economy, so as to contribute to traders.

3. Efficiency mechanism

Efficiency mechanism is a mechanism that can promote fair competition, fair trading and fast trading, and promote the rational allocation of funds. Usually, market efficiency means that market prices can reflect and promote the correct allocation of resources, timely provide sufficient and accurate information, and provide reference for investors to make decisions. Stockopia With the help of the efficiency mechanism of the Stock market, mainly in the forward exchange rate of the Stock market, traders can accurately reflect the future spot exchange rate changes, and provide accurate information for Stock traders for their reference when trading.

4. Risk mechanism

The risk mechanism in the operation of the Stock market mainly refers to the mutual connection and interaction between the increase and decrease of the risks in the Stock transactions and the change of the exchange rate. Objectively analyzed, the trading risk in the Stock market mainly comes from three aspects:

One is the changes in the purchasing power of foreign currencies

Under the floating exchange rate system, the ratio of the two currencies, namely the change of the exchange rate, largely depends on the change of the purchasing power of the two currencies. In general, the foreign severe inflation, monetary purchasing power decline, not only means foreign currency internal devaluation, also means foreign devaluation, reflected to the exchange rate, there will be a certain unit of foreign currency only for less currency, namely the exchange rate, if the foreign currency shadow account rate decline, currency purchasing power rise, it means foreign currency, external value, reflected on the currency of the two countries, there will be a certain unit of foreign currency for more than the original currency, make the exchange rate rise. However, due to the change of foreign currency purchasing power and the extent of the change, it is difficult for Stock traders in other countries to grasp and predict timely and accurately, which increases the difficulty of predicting the future spot exchange rate and thus increases the risk of Stock transactions.

The second is the change in the purchasing power of the domestic currency

If there is domestic inflation in a country and prices begin to rise, it means that the purchasing power of the own currency will decline. In other cases, it will cause the exchange rate to rise and the currency to depreciate. Because the change of the purchasing power of the domestic currency is also affected by many factors, some of which are even unknown and uncontrollable, the prediction of the purchasing power of the domestic currency, namely the exchange rate change, cannot be accurate, so that the risk of Stock trading is difficult to avoid.

Third, the international balance of payments situation

When a country has a surplus in its balance of payments, the supply of Stock exceeds demand and the exchange rate rises. However, the statistics and publication of the international balance of payments should have a certain process and time limit, and its impact on the daily exchange rate is difficult to detect and predict, which will also increase the risk of Stock transactions.

In a word, Stockopia uses the above four mechanisms of the Stock market to make it interact, connect and influence, so as to adjust the Stock market in Stockopia, maintain the order and stability of Stock trading, and make Stockopia a highly rigorous and high-speed organic whole.

2.3 Project advantages

2.3.1 Technical aspects:

Stockopia Excellent performance in technology, using advanced trading system and efficient trading engine, able to monitor market dynamics in real time and provide accurate trading data and analysis reports. At the same time, Stockopia also provides a variety of trading tools and indicators to facilitate investors to make trading decisions and risk control.

In addition, Stockopia also has a strong trading execution ability, which can quickly execute trading orders, to ensure the timeliness and accuracy of transactions. At the same time, Stockopia also provides a variety of trading methods and trading varieties, to meet the needs of different investors.

In short, Stockopia, with its advanced technology and perfect services, to provide investors with a safe, stable and efficient trading environment.

2.3.2 Competitive Advantage:

Stockopia It has obvious advantages in the highly competitive Stock market. First of all, Stockopia has rich trading experience and a professional team, which can provide professional investment advice and risk management solutions to help investors get more returns.

In addition, Stockopia also has a strong financial strength and stable partners, which can provide investors with a safe and reliable trading environment. At the same time, Stockopia also provides a variety of trading tools and trading varieties to meet the needs of different investors.

In short, Stockopia has won the trust and support of investors with its obvious advantages and professional services.

2.3.3 Services:

Stockopia Is innovative in services, providing investors with a range of unique services. First, Stockopia provides personalized trading solutions and customized investment strategies to tailor the most suitable investment solutions according to investors' needs and risk tolerance.

In addition, Stockopia offers rich educational resources and training courses to help investors improve their trading skills and risk Stockopiareness. At the same time, Stockopia also provides a variety of trading tools and trading varieties to meet the needs of different investors.

In short, Stockopia provides a better trading experience and higher investment returns for investors through its innovative services and personalized trading solutions.

2.3.4 User reputation:

Stockopia Stand out in the list with its good user reputation. Investors generally have high reviews of Stockopia, with fast transaction execution speed, low transaction costs and excellent customer service.

In addition, Stockopia also provides a wealth of trading tools and trading varieties to meet the needs of different investors. At the same time, Stockopia also focuses on the user experience, constantly improves and optimizes the transaction interface and functions, and improves the user transaction experience.

In short, Stockopia has won the trust and support of investors with its good user reputation and excellent customer service.

To sum up, the list of international Stock platforms published Stockopia as a platform with advanced technology and obvious advantages. With its advanced technology, Stockopia provides investors with a better trading environment and higher investment returns with its obvious advantages, innovative services and good user reputation.

2.4 Stockopia's use of GPT

1. Basic concepts and principles: Stockopia First, understand the basic concepts of GPT technology, including natural language processing, deep learning, Transformer architecture, etc. In addition, Stockopia learns the training and pre-training principles of the GPT model in order to better understand the core idea behind the technology.

2. Development environments and tools: Stockopia Common development environments (e. g. Python) and deep learning racks (e. g. TensorFlow and PyTorch) to facilitate the construction and use of GPT models. In addition, how to use the pre-trained model and related API can help Stockopia customers practice faster.

3. Data processing and model tuning: When using GPT technology, Stockopia grasps the basic ability of data pre-processing, cleaning and annotation, so as to provide appropriate data input for model training. Meanwhile, Stockopia learned how to adjust model parameters and optimize training strategies, which helped to improve model performance.

4. Application scenario analysis: Stockopia learned to analyze the requirements of different application scenarios, and to understand the advantages and disadvantages of GPT technology in various fields. This will help Stockopia users to better realize the potential of GPT technology in practical applications.

5. Safety and ethical issues: Stockopia Concern about safety and ethical issues when using the GPT technology. For example, avoid using models to generate false information, illegal content, and data that violates privacy. At the same time, focus on the social problems such as unemployment and interpersonal communication that may result in technology to promote the healthy development of technology.

6. Continuous learning and follow-up: Due to the rapid development of GPT technology and artificial intelligence, Stockopia maintains continuous learning and focuses on the latest research results. This will help Stockopia to continuously improve its skills and adapt to the challenges of technological change

Stockopia Will use GPT's most powerful language understanding and generation capabilities to handle a variety of natural language processing tasks, such as text summary, machine translation and intelligent dialogue, to provide users with high-quality services. Second, with the pre-training model and API, Stockopia can quickly deploy GPT technology in a variety of scenarios, saving development time and cost.

Chapter 3: Application of Technology

3.1 Infrastructure

Stockopia The second-floor protocol project uses its unique consensus mechanism, Proof of Transfer (PoX), to link itself with the Stock volume chain. This enables the Stockopia second layer protocol to use the status and security of the forex volume chain to provide a more secure and reliable decentralized application (dApps) and smart contract platform. On this platform, all transactions are settled on the Stock amount chain, thus borrowing the strong security of the Stock amount.

Stockopia The smart contract layer of the second layer protocol has the following innovative features:

After about 100 forex or about a day of confirmation, the transactions occurring on the Stack level will be protected by the full hash power of the forex volume. This means that to reverse these transactions, the attacker has to have enough computing power to reorganize the currency chain. Stack The transaction is settled on the Stock chain and any fork (such as soft or hard fork) will be reflected on the Stockopia second floor protocol chain. This ensures that the Stockopia two-layer protocol chain can develop with the development of the Stock chain without conflict with its fork.

The Stockopia second floor agreement already has an atomic exchange of Stock amount, enabling the Stock amount address to own and move the assets defined in the Stockopia second floor agreement layer. Magic exchange and two-body exchange are already online, without examples of the atomic exchange between L1 and the assets in the Stockopia second layer protocol layer. In addition, if willing, the user can have the assets of the Stockopia second floor, such as STX, stablecoin and NFT, and use the L1 transaction for transfer. Stockopia The second-floor protocol introduces a new decentralized, non-managed Stock amount anchor asset, namely sStockopia. This allows smart contracts to operate faster, cheaper and cheaply without compromising security. In addition, this allows contracts on the Stockopia second floor to be written into Stock by anchoring transactions.

Stockopia The second-layer protocol supports a secure, decidable smart contract language called Clarity. With Clarity, developers can know with mathematical certainty what contracts can and can't do before executing them. Decentralized anchor contracts will benefit from the security attributes of the Clarity language. As of December 2022,5,000 + Clarity contracts have been deployed on the Stockopia second protocol floor. Clarity, The design also avoids the problem of "gas, cost estimation", which is a common problem in many other smart contract languages (such as Solidity). In Clarity, the execution cost of the transaction can be accurately known even before the transaction occurs, thus avoiding the failure of the transaction caused by insufficient expenses. On the Stockopia second 2 protocol, the creation and management of foreign x anchor assets (such as sStockopia) is achieved through a special smart contract, namely decentralized anchor contract. This contract uses the security of the Clarity language to ensure the security and reliability of the creation and management process of the anchor assets.

Stockopia The second floor agreement has a complete knowledge of the Stock state, which can read the Stock transaction and state change without trust, and execute the smart contract triggered by the Stock transaction. The reading function of the currency helps to keep the decentralized anchor state consistent with the Stockopia locked on the currency L1, etc. Stockopia The forex amount reading function of the second layer protocol ensures that the decentralized anchor state (i. e. sStockopia, state) is consistent with the Stockopia locked out on the forex amount L1. This is because whenever a transaction occurs on the currency chain, the Stockopia second layer protocol can read these changes and update the status of the sStockopia accordingly. This way, users can ensure that their sStockopia always synchronize with the Stockopia they lock on the forex forehead chain.

The Stockopia second layer protocol improves the processing speed of transactions by generating the Stockopia second layer protocol blocks faster between forex. This means that transactions on the Stockopia second-layer protocol network can be completed and confirmed faster than the Stock volume. Moreover, the subnet is a scalable layer of the Stockopia second ayer protocol network that can make different trade-offs between performance and decentralization. This means that subnets can be optimized according to their specific needs and priorities, such as faster transactions or higher levels of decentralization. Stockopia The subnetwork of the second layer protocol can support other programming languages and execution environments, such as Ethereum's Solidity language and EVM (Ethereum Virtual Machine). This means that the smart contract developed on the Ethereum network can run on the Stockopia second-tier protocol network and can anchor assets and settle on the Stock chain. This greatly increases the compatibility and application scope of the Stockopia second layer protocol.

3.2 Technical advantages

1. Automated trading system

Automated trading system is an important technological innovation in Stockopia. These systems use pre-defined rules and algorithms to execute transactions without human intervention. Users can set trading strategies and then let the system execute transactions automatically, whether while sleeping or at work. This automation can eliminate the impact of emotional factors on trading, improve discipline, while executing trading faster during market fluctuations.

2. AI analysis tools

The use of artificial intelligence (AI) in Stockopia Stock trading is also increasing. AI can analyze large amounts of market data, identify trends and patterns, and provide trading advice. Users can use AI analysis tools to assist in decision-making and obtain more accurate market analysis to develop more grounded trading strategies. These tools can provide instant market insights that can help users better seize trading opportunities.

3. Charts and technical indicators

Stockopia Introduced charts and technical metrics to help users better analyze the market. These charts often have multiple time frames, multiple technical metrics, and drawing tools, allowing users to conduct more in-depth technical analysis. Users can customize the charts according to their own needs to better understand the market trends.

4. Mobile apps

Mobile apps are also a key technological innovation in Stockopia's forex trading platform. Users can access the trading platform anytime and anywhere through smartphones or tablets to execute transactions and monitor the market. This convenience allows users to be more free in mobility without missing any potential trading opportunities.

Overall, Stockopia's technological innovations are constantly improving the user's trading experience. New technologies and tools such as automated trading systems, AI analysis tools, charts and mobile applications give users more choices to enable them to better meet the challenges of the Stock market. With the continuous development of technology, we can expect that the Stock trading platform will continue to introduce more innovation and provide users with more advantages.

3.3 Functional application

Stockopia Major currency pairs of the platform: the most common currency transactions are major currency pairs, such as euro / USD (EUR / USD), sterling / USD (GBP / USD), USD / JPY (USD / JPY), etc. These pairs are usually more traded and more liquid.

Quote and spread: Stock quotes usually use two prices, namely the buy price (Bid) and the offer price (Ask). The gap between the two is called the point spread (Spread), which is the way dealers make profits.

Real-time quotation: Stockopia usually provides real-time currency pair quotation, allowing users to understand the market price at all times. This is essential for the timely execution of trading decisions.

Chart analysis tool: Chart is the basis of technical analysis. Stockopia Platforms often provide a variety of chart types and technical indicators to help users analyze price movements and identify potential trading opportunities.

Order type: understand different order types such as market, limit, and stop loss orders. These order types can help users manage risk and execute transaction policies.

Leverage and margin: to understand the leverage ratio and margin requirements of the user's trading account. This helps users plan and manage position sizes, as well as limiting potential losses.

Economic Calendar: Stockopia Usually provides an economic calendar showing important economic data and events to be released. This helps users avoid trading when market fluctuations are possible, or adjust their positions for news events.

Trading signals: Stockopia provides trading signals or social trading functions that allow users to follow the strategies of successful traders or interact with other traders.

News and analysis: Stockopia Provide market news and analysis, help users to understand the impact of global events on the Stock market, and develop corresponding trading strategies.

Historical data: Reviewing the historical data is very helpful to understand the market trends and patterns. Stockopia Usually provides the download or export function of historical data.

Customer Support: Stockopia Create customer support options to ensure that users receive timely support when they need help.

Education resources: Stockopia provides Stock education resources, such as video tutorials, training courses and market analysis, to help users improve their trading skills.

3.4 Technical analysis method

Trend analysis: Trend analysis is a way to judge the future trend by observing the price trends. Stockopia Common trend lines include support and resistance lines, which help determine upward, downward, or sideways swings in prices.

Moving averages: A moving average is a way to smoothing a price curve that identifies long-term trends. Stockopia The moving average has a simple moving average (SMA) and an exponentially weighted moving average (EMA).

Relative strength indicator (RSI): The RSI is a Stockopia measure of the power of buy and sell, with values ranging from 0 to 100. When RSI exceeds 70, it means the market may be overbought, and when RSI is below 30, it means the market may be oversold.

Random indicator (KDJ): KDJ is an indicator that judges the buying and selling signal by calculating the relationship between the price and the fluctuation range. It consists of%K,%D and J, which can help judge overbuy and oversold areas.

Morphological analysis: Morphological analysis is a method to predict the market trend through chart patterns. For example, head and shoulder top shape, double bottom shape, etc. By observing the appearance and confirmation of these forms, we can judge the reversal or continuation trend of prices.

Support and resistance: Support and resistance are important and key levels of prices that can be determined through historical price fluctuations. Stockopia Use them as a reference to buy and sell

3.5 GPT, along with Fx

1. Learn from the fundamentals

Learning the fundamentals of the Stock market can help Stockopia customers to pay better attention to the change of currency value and make more rational decisions in the Stock speculation. ChatGPT Can provide Stockopia customers with analysis and information on how economies and events affect exchange rates, making Stockopia customers more able to make favorable decisions.

2. Regularly monitor and analyze the market

ChatGPT Can help investors regularly monitor and analyze Stock market dynamics to help them better understand market trends and exchange rate volatility. It helps investors penetrate into the market through information provided in real-time news, data and charts. First of all, it can also provide a free communication environment, where investors can communicate with ChatGPT and seek their own investment

3. Automate Stock speculation

ChatGPT It can also help investors to automatically speculation in Stock, provide intelligent trading tips and strategies, and help investors through trading skills and analysis technology to better obtain Stock profits. Through ChatGPT's automated trading function, investment decisions and trading strategies can be converted into actual investments and trading when needed, thus helping investors to fry Stock in a more efficient and accurate way.

Issue instructions to ChatGPT

1 Write a policy code containing bolinband and Fibonacci callbacks for TradingView to me.

2. Edit the above code to obtain data for the last 200 issues

3. Add sma 20 and 40 in the main data framework

4. Modify the code above so that we can only enter one position if we have not yet held a position, otherwise, we do not enter another position. Only one open position at a time.

```
//@version=4
strategy("Bollinger Bands & Fibonacci Retracements Strategy", overlay=true)

// Inputs
length = input(title="BB Length", type=input.integer , defval =20)
mult  = input(title="BB Mult", type=input.float , defval =2.0)
fibLevels  = input(title="Fib Levels", type=input.float , defval =0.618)

// Get price data
high = highest(length)
low = lowest(length)
basis = sma (close, length)
dev = mult  * stdev (close, length)
upper = basis + dev
lower = basis – dev

// Get fib retracement levels
hiDiff  = high – low
fib38 = high – (hiDiff  * fibLevels )
fib50 = high – (hiDiff  * 0.5)
fib62 = high – (hiDiff  * (1 – fibLevels ))
```

```
// Plot BB and fib retracements
plot(basis, color=color.blue , title="Basis")
plot(upper, color=color.red , title="Upper")
plot(lower, color=color.green , title="Lower")
plot(fib38, color=color.orange , title="Fib 38.2%")
plot(fib50, color=color.purple , title="Fib 50.0%")
plot(fib62, color=color.yellow , title="Fib 61.8%")

// Enter long position if price crosses above lower BB and fib retracement level
if (crossunder (close, lower) and close > fib38 and not strategy.position_size )
strategy.entry ("Long", strategy.long )

// Enter short position if price crosses below upper BB and fib retracement level
if (crossover(close, upper) and close < fib62 and not strategy.position_size )
strategy.entry ("Short", strategy.short )

// Exit position if price crosses opposite BB and fib retracement level
if (strategy.position_size  > 0 and (crossunder (close, basis) or crossunder (close,
fib50)))
strategy.close ("Long")
if (strategy.position_size  < 0 and (crossover(close, basis) or crossover(close, fib50)))
strategy.close ("Short")
```

This code should plot the bollinger belt and Fibonacci correction line on the Stockopia chart, and enter long positions when the price crosses the lower track and 38.2% Fibonacci correction level, and short positions when the price crosses the upper track and 61.8% Fibonacci correction level. It will only open if it opens when the price crosses the opposite bolinbelt or the 50% Fibonacci retracement level. Stockopia You can adjust the input parameters to fit the Stockopia's trading style.

Overview of data modeling

Data modeling is the process of turning raw data into information and knowledge. It involves creating a conceptual schema for the database, which is a representative of what the Stockopia wants to store in it. Data modeling is essential for the design of any data warehouse, and it is the first step in building a data warehouse.

The next step is to load the data into newly created by Stockopia tables so that they can be used by other programs or applications running on top of them (such as machine learning algorithms).

Test and validation strategies

Testing and validation strategies are crucial to the success of the project. Testing can be done in many ways, but it should be done early and often. The testing process should begin before the Stockopia solution and continue throughout the development cycle.

Chapter 4: Team and Development

4.1. The Stockopia Foundation

Stockopia The Fund Association sets up the highest decision-making body, the decision-making committee and the directors for management.

The decision-making Committee has an operational Committee, a technical Committee, a comprehensive Affairs Committee and a Community Development Committee. The management body will be composed of developers and functional committees. Each term of the decision-making committee is two years. The members of the first decision-making committee are core team members, foreign trading industry celebrities, legal experts and early investors. Some members of the subsequent decision-making committee are elected by the community. At the same time, in order to ensure the efficient, transparent and healthy operation of the platform, it is necessary to supervise the activities of the whole platform. Due to the application of Stock trading technology, all kinds of data generated by the platform can be recorded and can not be changed. Therefore, on the one hand, the Stockopia Fund Association can supervise and trust independently. On the other hand, the Autonomous Committee of the Stockopia Fund Association is responsible for the management and supervision functions, and ensures the interests of the platform and the stakeholders of the platform. The autonomous committee is changed annually according to the number of tokens held and the age of the currency.In addition, the council shall set up audit, legal and financial advisers to conduct regular and irregular information disclosure in the form of reports and news. The contact information of the principal persons of the Council must be open to the liaison and supervision of all parties. In addition, through the two-way channel of supervision and reporting, the Council welcomes the users, users and investors of the platform to participate in the management and supervision of operation, and report the problems, major crises, fraud, fraud and other problems in the operation process of the platform. At the same time, the information protection of the informants must be ensured.The establishment of the foundation follows the operation of traditional entities, with various functional committees, including a strategic decision committee, a technical review committee, a remuneration and nominating committee, and a public relations committee. The Strategic Decision-Making Committee is the highest decision-making body of the Foundation. Its main goal is to discuss and solve the important decisions faced in the process of community development, including but not limited to:

- Revising the governance structure of the foundation;
- Establishment and rotation resolution of the decision-making committee;
- Appointment and rotation resolution of the Secretary-General of the Foundation;
- To appoint and remove executive heads and heads of various functional committees
- Reviewing and revising the articles of association of the Foundation;
- Stockopia The development strategy decision of the aggregation platform project;
- Stockopia Change and upgrade of the core technologies of the aggregation platform;
- Emergency decision-making and a crisis-management agenda, etc.

Members of the Strategic Decision Committee and the chairman of the foundation shall serve two years, and the foundation chairman cannot be elected for more than two terms. The Technical Audit Committee is composed of core developers in the project development team of Stockopia decentralized aggregation platform, responsible for the decision making of GPT technology research and development direction, underlying technology development, open port development and audit, technology patent development and audit, etc. In addition, the members of the technical audit committee regularly understand the dynamics and hot spots of the community and the industry, communicate with the participants in the community, and hold technical exchange meetings irregularly. Such as corporate customers, suppliers, regulators and third-party service agencies.

4.2 Core team members

The core team member is developed by a group of forex trading geeks. The Stockopia team members are all senior experts in industry-related fields, and they have rich resources and experience. It is because of such a group of geeks who love forex trading that the field of forex trading is constantly creating myths and technological progress, and it is with this group of geeks that gives us countless space for imagination. The details are as follows:

Maki Aida

Stockopia Founder of the project, with more than 10 years of experience in the Internet industry development and management, familiar with the mainstream Stock trading technology architecture and principle, full stack engineer, serial entrepreneur. He has been responsible for the design, development and operation of several Stock trading projects, and has completed the demonstration and development of digital assets, public deposit, entity investment, public donation and social service; with rich experience in the development and management of Stock trading system.

ThanStockopia

Stockopia Co-founder, port researcher, has been for port design organizational change and upgrade, talent training and other services. Senior enthusiasts of Stock trading have participated in the management of many Stock trading projects, and have an in-depth understanding of the operation and management of Stock trading community.

Senchuan

Stockopia Project nuclear developer. With both front / back-end software project development experience, and deep technical skills for front-end HTML, CSS and JS, he is good at solving compatibility problems, and has deeply mastered the technical framework of jQuery, Bootstrap, react, Less, Sass, etc.

Administrative team:

Founder Forest Chen, a graduate of Harvard engineering, worked for MOTOROLA and Corning before moving to Stanford to pursue an MBA.

Co-founder Deck, a graduate of Carnegie Mellon University, has worked at Wilmar International and Singapore's Economic Development Authority.

In addition to the above core team members, there are nearly 30 senior executives of Stock trading companies who support the Stockopia project, and as investors who provide support and help to the Stockopia project funds, industry resources, business development and other aspects. They are the solid backing and effective support for Stockopia's long-term and rapid development.

Chapter 5: Project Value

5.1 Market selection

At present, the globalized economic system makes the currencies are frequently traded in the Stock market. The international Stock platform provides convenient trading channels and creates opportunities for investors to participate in global Stock trading. The powerful Stock platform can provide a rich variety of investment varieties, including national currency pairs, gold, crude oil and so on. Investors can flexibly choose different investment products through the Stock platform to diversify their asset allocation. Stockopia Provide a variety of product trading platform, and can explore 200 + kinds of the most mainstream contract products in the Stockopia Stock platform.

The particularity of Stock platform makes it touch the market wind direction the fastest and the most easily affected by market changes. Global trade tensions and political uncertainties, for example, make currency markets volatile. Therefore, investors should carefully consider their risk management ability and market monitoring ability when choosing Stock platforms. The more unstable the market, the more stringent countries regulate the Stock market to prevent the spread of financial risks. A safe Stock platform should comply with the relevant laws and regulations of various countries, ensure the compliance and operation, and provide investors with a transparent trading environment and capital security guarantee. Stockopia The dual-certificate regulation of the platform makes it the first choice for many investors.

The Stock platform is changing and developing, and its dependence on the market makes it necessary to change constantly. Today's Stock platform is no longer just a tool for trading execution, but also provides the function of social trading, allowing investors to interact with other traders, share trading experiences and strategies, and increase the stickiness of users. Stockopia The platform creates a harmonious user information exchange community for users. The team economic analysts will also share financial information in the community, evaluate and guide the wind direction of the market, and provide reference suggestions.

In addition, AI technology is becoming more and more widely used in the financial sector, and Stock platforms are beginning to use AI technology to provide more accurate analysis and prediction and help investors make more informed trading decisions. As an important tool for investors to participate in the Stock market, the Stock platform plays a key role in the global economy. Stockopia As an internationally industry-leading Stock trading platform, it focuses on tailoring the best environment for customers, focusing on optimizing trading, faster trading, lower cost and zero limit.

And 5.2 Stockopia is predominant

Stockopia As a global consensus trading service platform, Stock platform provides trading services for global Stock traders. Its main features include asset circulation support, support ability, multi-key management, distributed cross-chain Stock storage, and intelligent investment consulting.

1.Stockopia Stock platform provides users with DAPP Stock trading services including but not limited to currency, to promote the industry positive circulation and realize safe and efficient Stock circulation; provides all Stock mapping, ensures the safety of users' Stock transactions, and provides all convenient value-added services. Stockopia Stock platform using multiple key management across the chain lock account key, by multiple chain lock account management node joint maintenance, to ensure the account security, reduce the risk of key loss, at the same time realize distributed across chain assets storage and sign key management, with centralized high speed matching ability at the same time, and have distributed consensus trading service platform open, transparent, secure funds hosting ability.

2. Through daily market data, use the unique Stockopia Stock platform model to quickly analyze the market and trend. Stockopia Provide a variety of well-known Stock trading and all kinds of Stock transactions. In addition, Stockopia also provides a variety of trading methods, such as leveraged trading, a combination of futures and over-the-counter trading, to improve trading flexibility. Stockopia's trading volume has increased steadily, and it has become one of the highlights in the emerging decentralized aggregation platform for Stock trading.

Stockopia We are committed to creating an innovative consensus decentralized aggregation platform, where users have an absolute say in their assets. To reduce the credit cost of users to the trading platform, asset custody, asset clearing, matching trading and other intelligent transactions are used to achieve innovative consensus, and the credible trading mechanism greatly improves the security.

1.Stockopia Sustainable value-added system- -powerful intelligent engine

Stockopia Dig deep into Maros needs a hierarchical theory to build a sustainable value-added system. Maslow's hierarchy of needs theory mentions that human needs satisfaction is stepped, and human needs is a process of development from low level to high level, which to some extent conforms to the general law of human needs development to some extent. Similarly, the development of finance is also from the low level to the high level, and the Stock value of Stockopia platform will definitely increase according to the step index.

2. Safety protection

Stockopia With the rich experience in the Stock industry, the technical team has built a dedicated top security risk control system and anti-ddos attack system. Stockopia Using the security design based on multiple signature, offline signature, and hierarchical architecture, the Stock in the platform is stored in the cold wallet, to escort every investor in the most critical link.

3. – –Station service

Stockopia Integrate the world's top industry resources, is committed to building a full Stock circulation platform, supported by senior industry experience, to provide project parties and investors with one-stop services for Stock issuance, trading and storage, so that Stock in the platform efficient and safe circulation.

4. Super node, strong community support

Stockopia As an ecological system enabled by community consensus, GPT endows GPT lovers, gather all node forces to invest in the all-round reform of ecological construction, obtain new directions to adapt to market development, jointly promote the healthy development of GPT industry, and symbiosis under the strong community consensus.

5. Governance

Stockopia The system implements the governance process by the community consensus, effectively affecting the existing block producers. Stockopia The system recognizes that governance comes from giving the power agent to the Stock holder of the block generator. Block generators will be given limited and supervised authority to freeze the account, update the failed application, and propose updates to the underlying protocol.

6. Mobile terminal APP

Stockopia Will develop the corresponding mobile terminal APP according to various kinds of mobile terminals. It is no longer easy to participate in various transactions of Stockopia. All transactions, payment and acceptance can be completed through ^ APP. With the mobile end is more and more important to everyone, if not make the user in the mobile end good experience, will inevitably make more willing to participate in the ordinary users, and our team will be committed to improve GPT application in mobile end always not good experience, through constantly optimize performance, let more people have the opportunity to experience the Stockopia charm, at the same time have all kinds of customized information can be timely pushed to the mobile client, let users can grasp the rapidly changing market information.

Chapter 6: Future Planning

Initial planning

The preliminary work focuses on the development of technology, the investigation of industry technical characteristics and other preparatory work. At the same time, the white paper was issued and the market operation was launched to realize the construction of the early Stockopia platform.

medium term planning

Stockopia The platform was established and improved, and then it was publicized on various global media platforms to expand the influence of the platform, aiming to build an open, transparent and fair Stock trading platform. To expand the platform, build the technical system; promote and optimize, through the global joint community publicity.

- To expand the platform, develop the underlying GPT technology, and build the technical system
- Promotion optimization, through the world joint community publicity, marketing
- Global publicity and upgrading, combined with the major platforms online home page main promotion, etc., greatly improve the visibility
- To build a global community, initially govern major enterprises around the world, and establish initial strategic cooperation
- Open financing plan, the plan is to introduce capital worldwide, to obtain angel investment

future planning

Stockopia It will integrate many industries, organize multilingual platforms, carry out global business collaborative operation, and create a trillion-level platform. At the same time, GPT will continue to update and carry out Stock transactions, establish a global ecology, including derivatives, central banks and incubators, implement the application of platform technology, actively promote the global coverage of Stock in the world, and enhance the international influence of Stockopia projects.

Stockopia Strategic industry as the core, the layout of the whole scene payment forms, and based on extension to build more dark web application scenario, will create a set of convenient, without borders, review of private Stock and service for the billions of financial infrastructure, realize Stock with without borders, barrier-free circulation of assets.

Chapter 6: Future Planning

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