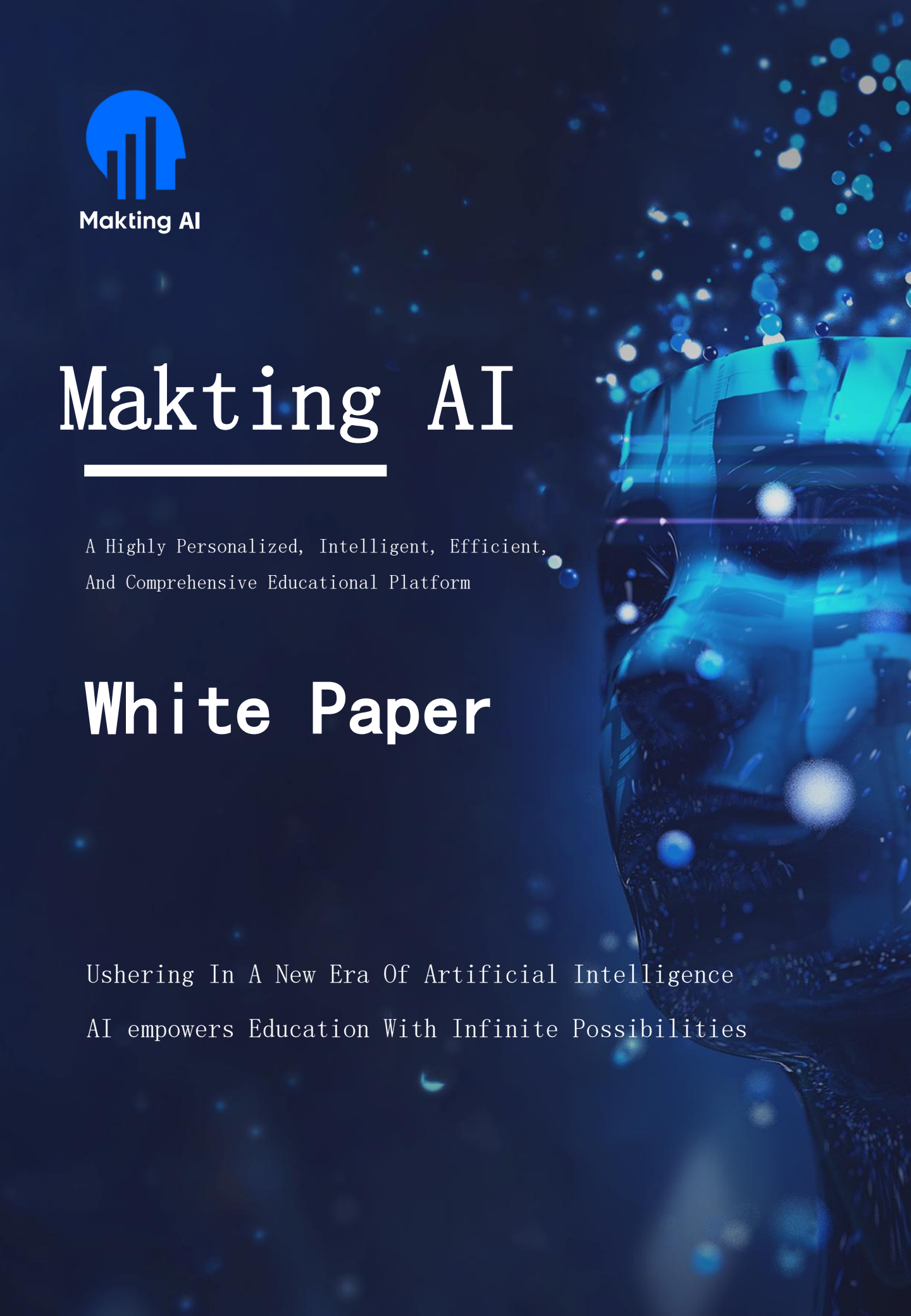
Makting AI

# Makting AI

A Highly Personalized, Intelligent, Efficient,
And Comprehensive Educational Platform

# White Paper



Ushering In A New Era Of Artificial Intelligence

AI empowers Education With Infinite Possibilities

# Preface

With the continuous progress of science and technology, artificial intelligence (AI) technology has entered peoples lives, gradually changing the operation of all walks of life. Especially in the field of education, the application of AI technology has become an important force to improve the quality of education, expand education forms and optimize the allocation of teaching resources. This paper will deeply discuss the application of AI technology in intelligent education, analyze its far-reaching impact on the education system, and how to promote the innovation of education mode.

AI technology is a system that makes decisions and reasoning by simulating human intelligence, learning and analyzing data. It can realize automatic information processing, intelligent feedback and accurate services. In the field of education, the application of AI technology has gradually penetrated into every link, from the personalized recommendation of teaching content to the automatic management of the learning process, they are constantly promoting the process of educational reform.

First of all, AI can accurately identify the advantages and disadvantages of students in learning through the analysis of students learning data, and then develop personalized learning plans. This kind of personalized teaching enables each student to learn at their own pace, avoids the "one size fits all" teaching method in the traditional education mode, and truly realizes the teaching in accordance with their aptitude. With the help of AI, teachers can better understand the needs of students, thus improving the teaching effect.

Second, AI can play a huge role in the allocation of educational resources. Through the integration and analysis of data, AI can help education authorities to allocate education resources more reasonably, avoid resource waste, and improve education fairness. For example, AI can automatically analyze the teaching level of teachers in different regions according to the differences in regional educational resources, and then put forward effective teacher training plans to optimize the allocation of educational resources.

Personalized learning is an important trend in intelligent education, which requires customized learning content and progress according to the specific situation of each student. Through the in-depth analysis of students learning behaviors, achievements and interests, AI technology can accurately identify students learning needs, and provide tailored learning content and methods.

# Catalogue

## 04. Business Logic



## 05. The Core Team



## 06. Future Vision



## 07. Disclaimer And Risk Tips

# 01 Project Context

## 1.1 The Emergence Of Artificial Intelligence In Education

With the rapid development of artificial intelligence technology, its influence in the education field is increasing. AI technology not only changes the traditional teaching methods, but also provides students with a more personalized learning experience. Through data analysis and machine learning algorithms, AI can identify the unique needs and learning styles of each student, and realize tailored learning solutions. This transformation marks the beginning of the educational revolution, teachers are no longer a single knowledge teacher, but the guide and supporters of students in students learning journey.
Here are some of the key changes that AI brings in education:

| Change | Description |
| --- | --- |
| Personalized Learning | Use AI to analyze student data and develop differentiated teaching plans |
| Real-Time Feedback | Students can adjust their learning strategies based on the real-time data |
| Teacher Role | From the traditional teaching to the guidance, to promote students to study independently |

In this way, AI not only improves the learning effect, but also enables teachers to have a deeper understanding of the interests and needs of each student. Combined with big data technology, teachers can monitor students learning progress in real time and provide them with immediate help. This efficient data processing ability makes education no longer an "assembly line" model, but a real focus on the development potential and personality of each student. With the development of this AI education revolution, we can look forward to a more open, inclusive and interesting new classroom environment.

## 1.2 The concept And Implementation Of Personalized Learning

In todays education field, the concept of personalized learning is gradually gaining more and more attention. It aims to provide a tailored learning experience tailored to each students unique characteristics and needs. In this process, artificial intelligence has played a crucial role. With the help of AI technology, educators can deeply analyze students interests, learning styles, and progress to design more targeted course content.

Here are some of the key changes that AI brings in education:

For example, when a student has difficulties in math, the AI can provide additional practice questions or adjust the course difficulty to help him better understand the relevant concepts. At the same time, AI can recommend more challenging content to maintain their enthusiasm and motivation. This not only improves the teaching efficiency, but also enables each student to grow up at their own pace.

However, in order to achieve truly personalized learning, educational institutions need to build appropriate platforms. Effective data analysis tools and continuous teacher training are indispensable links. Teachers can use these tools to understand the individual needs of students, so as to flexibly apply them in teaching, so that every student can feel concerned and valued. This new education model based on data-driven and emotional support will open up a new direction for the future development of education.

### 1.2.1 How Do Teachers Use AI Technology To Improve The Teaching Effect

In todays educational environment, the introduction of artificial intelligence provides unprecedented opportunities for teachers to improve their teaching results. Through advanced data analysis, teachers can obtain students learning progress and grasp in real time. This immediate feedback mechanism enables teachers to quickly identify the difficulties that students encounter in learning, so as to provide targeted help. For example, through the AI system analysis, if a student may not perform well on a certain mathematical concept, then the teacher can adjust the teaching content and explain this part more intensively.

Personalized learning is also an important tool for AI to empower teachers. AI can tailor learning materials for each student according to their unique needs and interests. In this way, teachers are no longer one-way information transmitters, but become guides in the learning journey, which can provide more targeted and interesting classroom experience. At the same time, this method also encourages self-directed learning and helps students to participate more actively in their own learning process.

However, in the face of such powerful technical tools, teachers also need to constantly improve their skills to use these resources effectively. This involves not only the mastery of new tools, but also the ability to understand and use the results of AI analysis. Through such efforts, teachers can not only improve their teaching effect, but also create a richer and more effective learning experience for students. In addition, the appropriate use of technology can also stimulate students desire for knowledge, thus improving their academic performance and development potential.

### 1.2.2 Real-Time Analysis And Feedback Mechanism Of Learning Progress

With the help of artificial intelligence, educators can realize the real-time analysis of students learning progress. With advanced data analysis technology, teachers can obtain the learning status and understanding depth of each student. This feedback mechanism can not only allow teachers to know how well students grasp the course content, but also help teachers quickly identify those students who have difficulties in learning.

Through real-time data, teachers can develop more personalized education strategies and adjust the teaching content and methods more effectively. For example, if a student does not perform well in math, the teacher can use the feedback data provided by the AI system, arrange reinforcement exercises, or provide additional tutoring resources. This dynamic adjustment greatly improves the teaching efficiency, enabling each student to learn in the most suitable way.

In addition, this analysis mechanism can also help students for themselves to monitor their learning progress. With the help of personalized data reports, students can clearly see their performance in different disciplines, thus generating the motivation for self-improvement. AI technology has provided unprecedented transparency in education, making learning more active and flexible. This data-driven approach not only improves the quality of education, but also lays the foundation for the future educational revolution.

# 1.3 Opportunities And Challenges Brought About By The AI Education Revolution

With the rapid development of artificial intelligence, the education field is facing an unprecedented revolution. This revolution has not only created new opportunities for personalized learning, but also brought many challenges. Personalized learning can tailor educational programs to their unique needs to maximize their learning potential. For example, based on the data analysis of AI technology, teachers can obtain students learning progress in real time and adjust their teaching strategies, and this flexibility injects new vitality into the traditional classroom.

However, there is also a certain problem that follows. Although teachers can rely on AI tools to assist teaching, it should not be ignored that this may also lead to some teachers to gradually rely on machines and ignore the interpersonal interaction with students. What is more challenging is how to maintain the fairness of educational resources while ensuring the effect of personalized learning, so that every student can enjoy quality education.

In addition, technology dependency can also raise data privacy and security issues. In achieving a more efficient and convenient learning environment, we must ensure that any data collected through the AI is managed in a responsible and transparent manner. These are the problems that need to be addressed towards a new model of education in the future. Therefore, while enjoying the opportunities brought about by the revolution in education and science and technology, we also need to carefully deal with the challenges that accompany it, so as to create a more ideal and safe learning environment for students.

## 1.3.1 The Impact Of Personalized Learning On Students Development

By utilizing the powerful ability of artificial intelligence, personalized learning is able to customize the educational experience for each student, thus profoundly influencing its development. Specifically, AI technology allows teachers to provide more flexible learning solutions based on students learning style and progress. This kind of customized teaching can not only take into account the interests and hobbies of each student, but also provide appropriate support at the right time, so that the disadvantaged students can get more help, so that the excellent students can also meet the challenges at a higher level.

In addition, personalized learning also promotes the development of students self-driven ability. In this environment, students are no longer passively accepting knowledge, but independently choose and explore what they are interested in. This sense of participation enhances their learning motivation and helps foster important skills such as creativity and critical thinking.

Therefore, while promoting the development of personalized learning, emphasis should also be given on how to use AI properly to ensure that all students can fairly benefit from this educational revolution.

## 1.4 The vision And Outlook For The Future Of Education

With the continuous development of artificial intelligence, the prospect of future education has become more and more broad. Through personalized learning, each student can obtain a tailored learning experience according to their own interests and abilities. This not only improves the learning efficiency, but also makes students feel more fun and a sense of achievement in the process of exploring knowledge. Teachers play an important role in this process. They can use AI technology to analyze the learning progress of each student in real time, so as to constantly adjust and optimize the teaching content. This flexibility makes teaching no longer a "one-size-fits-all" model, but just like weaving a unique knowledge "dress" for each student.

In such an educational environment, cooperation and interaction have become the new key words. In the future classroom, students from different backgrounds and ability levels can discuss problems and share insights to stimulate their creativity under the guidance of AI teachers. Meanwhile, educators will face new challenges, such as how to ensure that the technology is applied fairly and how to address the digital divide.

Looking into the future, with the development of technology, we may see the emergence of more three-dimensional and rich learning platforms, making the dissemination of knowledge more convenient. In short, this important change triggered by the AI education revolution will not only change the teaching style, but also reshape the entire education system and provide better opportunities for each student to grow.

# 02 Project Introduction

## 2.1 Makting AI Overview

Makting AI Is a highly personalized, intelligent, efficient and comprehensive education platform, with Singapore (SG) as the strategic core, and is leading the frontier wave of blockchain technology. Its core advantage lies in its owning and managing thousands of GPU resources, which constitutes its indestructible cornerstone and becomes the most solid competitiveness foundation of Makting AI platform.

In the current AI and machine learning (ML) under the background of high-speed development, Makting AI has become the key elements to promote technology innovation and application, Makting AI understand this, not only committed to efficient integration and use of their own resources, more prospective layout B2B (Business-to-Business) function, aims to provide one-stop, customized computing solutions. Makting AI It aims to create value for itself, but also to promote the prosperity of the entire AI and education field.

## 2.2 Makting AI The Mission And The Vision

### 2.2.1Makting AI The Mission

Makting AI The mission is to become the worlds leading decentralized high performance computing (HPC) and AI force personalized learning platform, through the integration and efficient use of thousands of GPU resources, break the traditional limitation of resource allocation, for developers, schools, teachers, students and global users to provide a unique demand, interest and learning style, tailored learning plan. This method aims to improve students learning efficiency and sense of participation, so that they can better master knowledge.

### 2.2.2Makting AI Vision

Makting AI The vision of the personalized learning platform can be summarized as follows: to provide each student with a tailored efficient, interesting and comprehensive learning experience through intelligent technology, and to help students realize the maximum development of their potential.

#### Precise Customized Learning Path:

AI technology is used to deeply analyze students learning habits, interests and ability level, to create personalized learning plans and resources for each student, to ensure that the learning path not only meets the actual needs of students, but also to stimulate their interest in learning.

#### Real-Time Feedback And Intelligent Tutoring:

By monitoring students learning progress and performance in real time, the AI can provide immediate feedback to help students correct their mistakes and adjust their learning strategies in time. At the same time, the intelligent tutoring system can answer students questions at any time and provide personalized learning support.

#### Optimize The Learning Effect And Efficiency:

The AI personalized learning platform is committed to helping students master knowledge more efficiently and improve their learning efficiency through intelligent recommendation and learning situation analysis. Through data analysis, the platform can also continuously optimize the teaching content and methods to adapt to the changes in students learning.

## 2.3 Makting AI Design Principles

In terms of design and technology, the design principles of Makting AI need to comprehensively consider functionality, user experience, technology implementation and other aspects to ensure that Makting AI platforms can both meet current needs and adapt to future developments. Here are the following design principles for Makting AI:

### Functionality And Practicality

High-performance computing resources: to ensure the high performance and high availability of GPU resources, providing strong support for the training and reasoning of AI models.

Flexible Resource Scheduling: flexible allocation of GPU resources to meet the diverse needs of different users.

Security Guarantee: Ensure the security of data transmission and storage, and protect user privacy and intellectual property rights.

### User experience And Ease Of Use

User interface Friendly: design an intuitive and easy to use user interface to reduce user learning costs.

Smooth Interaction: Ensure that users operate smoothly during use, reducing waiting time and operation complexity.

Technical Support: Provide detailed technical documentation and support services to help users quickly solve problems.

### Technological Innovation And Foresight

Intelligent Cloud Computing Power Platform: By introducing advanced AI technology, the computing power can be self-learned and optimized.

Blockchain Technology applications: enabling secure storage, transparency, and automated management of assets.

Continuous Technology iteration: constantly explore new technologies and application scenarios, and maintain technology leadership.

### Openness And Compatibility

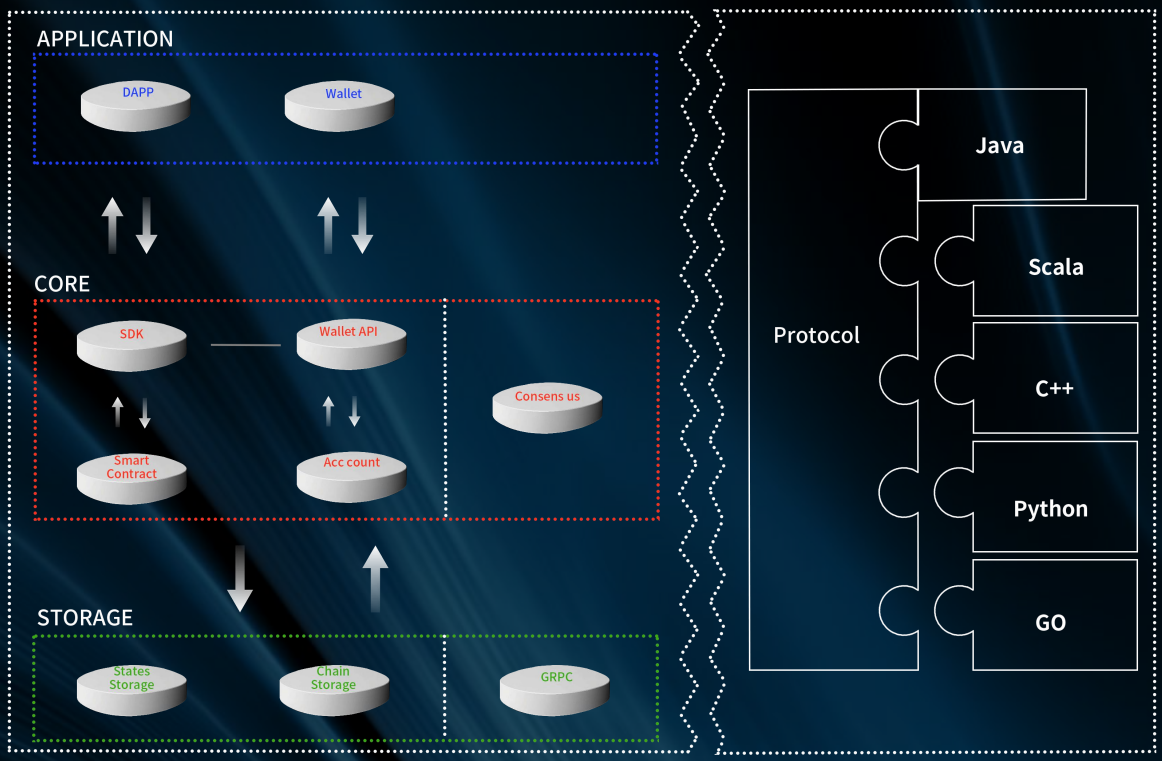
API And SDK Development: Provide a standardized API and SDK to enable third-party developers to easily access the Makting AI platform.

Multi-Platform Support: Ensure that the Makting AI platform can operate on multiple operating systems and hardware platforms to improve compatibility.

Community Co-Construction: encourage community participation, and jointly promote technological progress and ecological prosperity.

# 03 Technical System

## 3.1 Makting AI Core Architecture




### 3.1.1 Storage Layer

Makting AIs technical team has designed a unique distributed storage protocol for Makting AI, including block storage and state storage.

In the design of the storage layer, Makting AI introduces the idea of a graph database to more easily meet the needs of diverse data storage in the real world.

### 3.1.2 Core Layer

Makting AI Including smart contract, account management, consensus and other modules. Makting AI Stack-based virtual machines with an optimized instruction set.

In order to enable developers to better develop DAPP, Makting AI uses Java language as the contract language, and will add more high-level language support in the future. In order to meet the unique needs of Makting AI, Makting AIs consensus mechanism has made some innovations based on DPOS.

### 3.1.3 Application Layer

Developers can use the interface to easily implement a rich DAPP and personalized wallet.The Makting AI protocol uses Google protobuf entirely to define the natural support for multilingual extensions.

## 3.2 A consensus Mechanism Based On The Modified POS

The POW consensus mechanism has always had the problems of wasting resources, low efficiency and low TPS. These are not inconsistent with the values and positioning of Makting AI. Based on the design concept of Makting AI, in order to truly realize the blockchain platform that can be used in daily scenarios, we chose the POS mechanism as the keynote of the consensus mechanism of Makting AI. The consensus mechanism of Makting AI starts from the POS. After investigating the existing excellent improvement ideas in the entire blockchain field, we made improvements to the POS mechanism to meet our needs, thus identifying the Makting AI consensus.

### 3.2.1 Basic Principles Of Consensus Mechanism

- Users will make a weighted vote according to the amount of their voting coins, and select the current block generation node according to certain rules according to the voting results. The referenced rules will guarantee as much as possible the balance between the generation speed of blocks and the number of packaged nodes.
- At the same time, the unsuccessful packaging nodes, users who vote for the winner, and users who vote for the loser may all receive a certain amount of compensation to encourage them to continue to participate in the campaign process.

- The selected nodes will be packaged in turn according to certain allocation rules and get the maximum share of the reward.
- The majority of the selected nodes are selected based on the voting results, and the rest are guaranteed that all the remaining nodes may be selected according to certain algorithms.

## 3.3 Makting AI Artificial Intelligence Model Optimization Technology

Makting AI Artificial Intelligence Model Optimization Technology (AIMOT) is a collection of advanced technologies designed to improve the performance and generalization capability of AI models. The following is a detailed interpretation of AIMOT:

### (1) Model Compression Technology

① Parameter Pruning (Parameter Pruning):

Principle: In the mining process, the efficient model can reduce the consumption of computing resources, thus improving the mining efficiency. Removing parameters that contribute less to the performance of the model through parameter pruning is like removing unnecessary components in mining equipment, reducing energy consumption and improving computing speed. For example, in the Makting AI GPU mining scenario, the AI model with parameter pruning can more accurately allocate computing power, focus more computing resources on key mining tasks, and improve the success rate and benefits of mining.

Implementation Method: combined with the characteristics of the mining task, the weight parameters in the neural network are targeted pruning. For the feature extraction and algorithm execution parts associated with mining, the key parameters are retained, while some parts that do not affect the mining performance are boldly pruned. When fine-tuning after pruning, the model parameters of the mining are adjusted to meet the demand of mining.

Advantages: reduce the calculation amount and storage requirements in the mining process, and reduce the hardware cost. At the same time, the operation speed of the model on the mining task is improved, so that Makting AI can complete more mining calculation in the same time and increase the revenue.

② Quantification :

Principle: In mining, the quantification of the model can reduce the accuracy requirement of computing resources, thus reducing energy consumption. Similar to mining equipment on the premise of ensuring a certain performance, using low precision calculation method to reduce energy consumption. For the Makting AI mining business, the quantified artificial intelligence model can reduce the dependence on high-end GPU and other resources and reduce the mining cost without significantly reducing the mining performance.

Implementation Method: according to the requirements of the mining task, select the appropriate quantification level. For example, in some mining links with relatively low precision requirements, a higher degree of quantification can be used to convert the model parameters from high precision floating point number to low precision integers. At the same time, the impact of quantification on performance is monitored in real time, and the quantitative strategy is dynamically adjusted to achieve the best mining effect.

Advantages: Reduce the calculation cost and storage requirements of mining, and improve the deployment efficiency of mining equipment. Enables Makting AI to mine and expand its business in a wider range of hardware environments.

③ Knowledge Distillation:

Principle: In mining, knowledge distillation can transfer the knowledge of complex large-scale mining models to small models to realize efficient mining. Just as experienced miners teach mining skills to novices, the knowledge of large mining models (teacher models) can help small models (student models) to better complete mining tasks with limited resources.

Implementation Method: In the Makting AI mining scene, first train a high-performance large mining model, and then use knowledge distillation technology to transfer its knowledge to a lighter model. When training the student model, the actual income of mining is taken as the goal function, so that the student model not only learns the real mining data, but also tries to imitate the mining strategy and decision-making process of the teacher model.

Advantages: It can improve the performance of small mining models without increasing computing resources. Enables Makting AI to maintain efficient mining capacity and improve the flexibility and sustainability of the business despite limited resources.

## (2) Data Enhancement Technology

### ① Random Cropping :

Principle: In mining, random cropping can increase the diversity of mining data and improve the adaptability of the model to different mining scenarios. Similar to miners exploration in different mining areas, different geological conditions and ore distribution. By randomly cutting the mining data, the model can learn the mining characteristics in different situations and improve the success rate of mining.

Implementation Method: In the mining data processing of Makting AI, the input mining data (such as mine image, sensor data, etc.) is randomly trimmed. The appropriate cropping area and size can be selected according to different mining tasks and data types. For example, in the image data, mining area images of different positions and sizes can be randomly trimmed out, so that the model can learn the characteristics of mining areas from different perspectives.

Advantages: Improve the generalization ability of the model and reduce the risk of overfitting. The Makting AI mining model can operate stably under different mining environments and improve the reliability of mining business.

### ② Random Flipping:

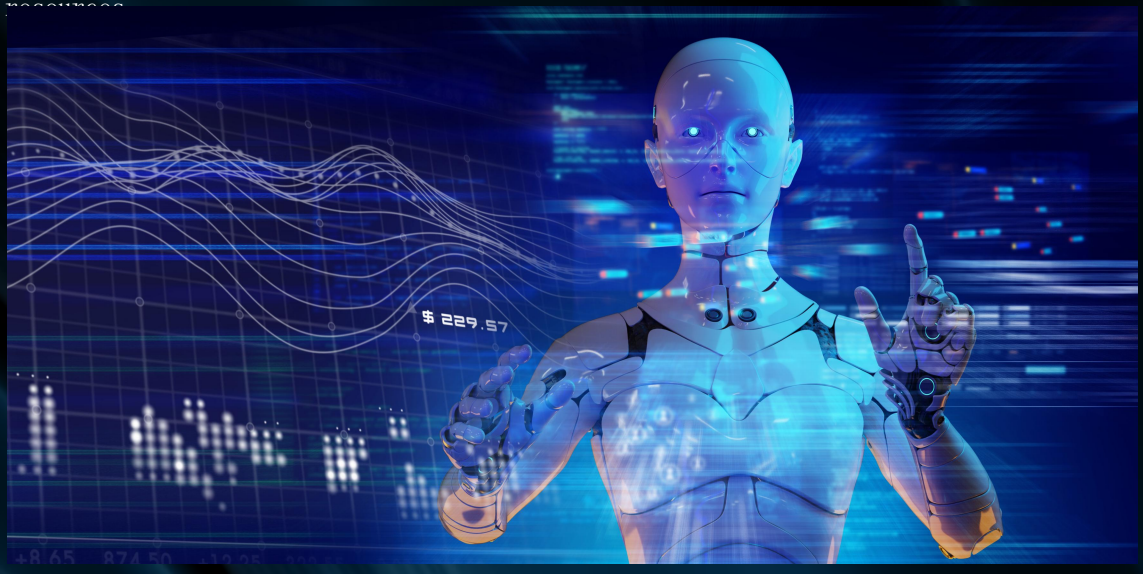
Principle: In mining, random flipping can simulate different mining perspectives and directions, and increase the models understanding of the mining data. Just like the miners looking at the mine at different angles, looking for the best place to dig. By randomly flipping the mining data, the model can learn the symmetric features of the object and the mining information of different directions, and improve the accuracy of mining.

Implementation Method: In the mining data processing of Makting AI, the input mining data is randomly flipped horizontally or vertically. You can choose the appropriate flipping mode and probability according to the type and characteristics of the data. For example, in two-dimensional image data, the image can be flipped horizontally or vertically with a certain probability, allowing the model to learn the characteristics of mining areas in different directions.

Advantages: Increase the diversity of data and improve the generalization ability of the model. The Makting AI mining model can adapt to different mining scenarios and data changes, and improve the stability of mining business.

## 3.4 Makting AI Computing Force Scheduling And Optimization

One of the core advantages of the Makting AI platform is its powerful computing power scheduling and optimization technology, which ensures the effective utilization and efficient management of GPU resources. Makting AI A variety of advanced computing power scheduling algorithms are adopted to ensure the efficient allocation and utilization of resources.




### Heuristic Scheduling Algorithm:

- ✓ Dynamic Priority Scheduling: dynamically adjust the scheduling order of tasks according to the priority and urgency degree to ensure that key tasks are handled in time.
- ✓ Load Balancing: By monitoring the load situation of each node in real time, dynamically allocating tasks, to avoid one part of resources overload and another part of resources idle.

### Intelligent Scheduling Algorithm:

- ✓ Scheduling Based On Deep Learning: Use the deep learning model to predict the execution time and resource requirements of tasks, and to allocate resources in advance.
- ✓ Adaptive Scheduling: adjust the scheduling strategies according to the historical data and real-time feedback, and constantly optimize the scheduling effect.

Makting AI Using a variety of advanced power scheduling algorithm, including dynamic priority scheduling and load balancing technology, according to the priority and urgency of the task scheduling order, to ensure that the key task is timely processing, and through the real-time monitoring of each node load dynamic allocation task, to avoid overload or idle resources.

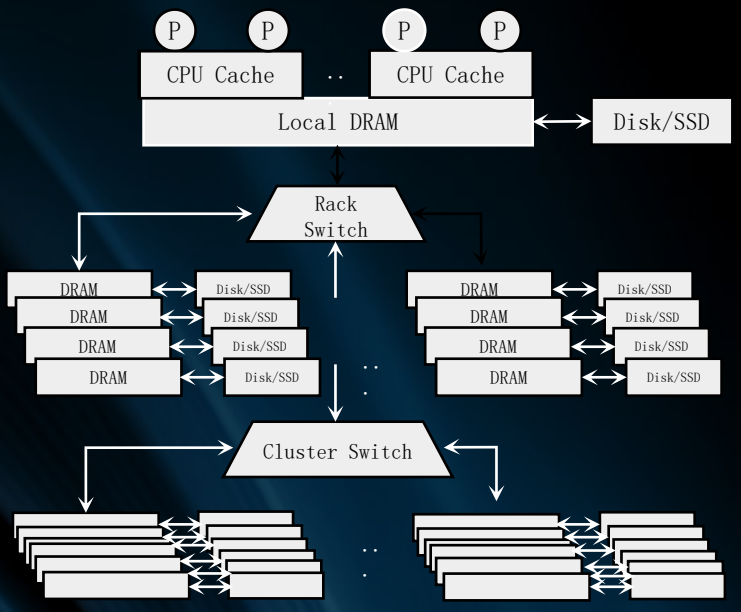
In addition, Makting AI also uses the deep learning-based scheduling algorithm and adaptive scheduling technology to predict the execution time and resource requirements of tasks through the machine learning model, allocate resources in advance, and constantly adjust the scheduling strategy according to the historical data and real-time feedback to optimize the scheduling effect.

In order to further improve the utilization of computing power, Makting AI divides a single GPU resource into multiple virtual GPU instances through resource virtualization technology, so that multiple tasks share the same piece of GPU, and uses container technology to encapsulate the running environment required for tasks, reducing resource overhead. At the same time, through parallel computing optimization technology, large tasks are divided into multiple small tasks, the parallel processing capability of multiple GPU is fully utilized, and the tasks are decomposed into multiple stages through pipeline technology, and each stage is executed in parallel, so as to improve the overall processing speed. Memory management optimization techniques such as caching mechanisms and data compression are also widely used to reduce frequent memory read operations and improve computational efficiency.

Makting AI An intelligent cloud computing platform is built to integrate self-learning and optimization mechanisms, self-learning and optimize scheduling strategies through machine learning algorithms to improve scheduling efficiency. The real-time monitoring system monitors the use of computing power resources, finds and solves the problems in resource allocation in time, and continuously optimizes the computing power scheduling algorithm through the data feedback mechanism. According to the real-time mining revenue, the automatic switching technology automatically switches the computing power to the currency with the highest revenue for mining, and automatically allocates the optimal computing power resources according to the task requirements through the dynamic distribution mechanism. The user-friendly management platform enables users to easily check the computing power status and revenue, and submit tasks with one click, and the platform automatically allocates the optimal computing power resources.

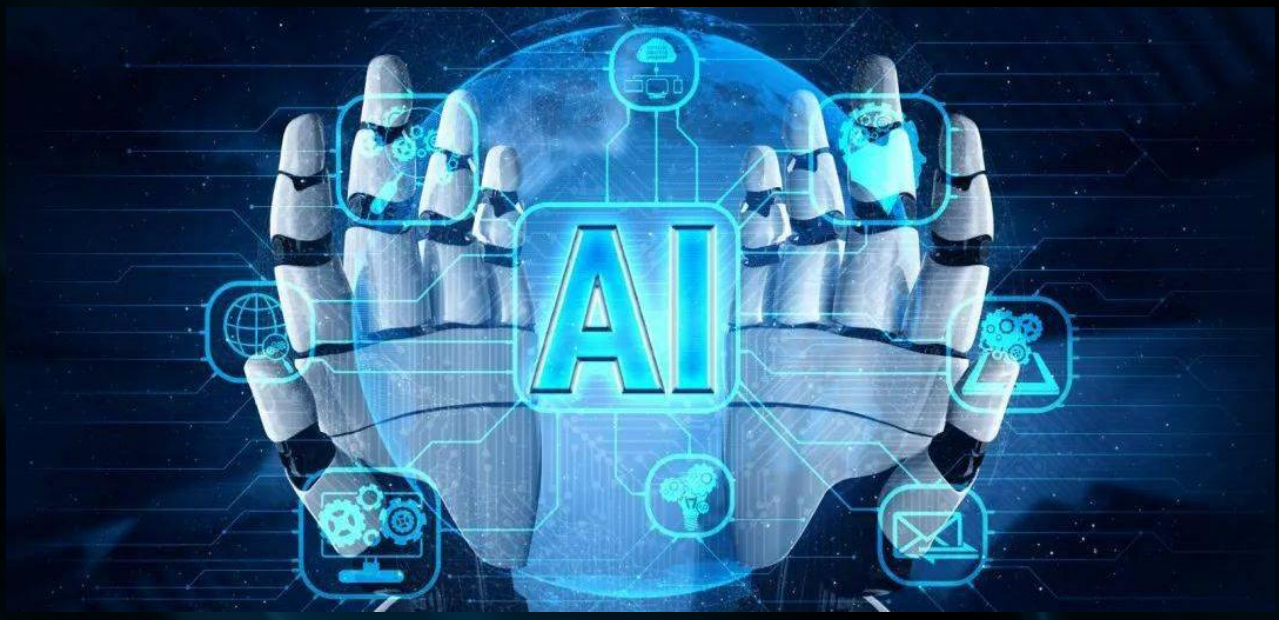
Data-driven optimization technology is also a major highlight of the Makting AI. Through big data analysis technology, the historical data is analyzed to predict the future computing power demand and resource allocation trend, and to find the rules hidden in the data through data mining technology, and optimize the computing power scheduling strategy. Machine learning models predict the computing power demand and resource utilization rate, prepare for resource allocation in advance, and constantly optimize the computing power scheduling algorithm to improve the overall system efficiency. Through these advanced technologies, the Makting AI platform not only realizes the efficient utilization of high-performance computing resources, but also ensures the security and privacy protection of data, and promotes the prosperity and development of AI and education.

## 3.5 Makting AI Cloud Storage




Makting AI Cloud storage belongs to the underlying support of its cloud computing. It can not only save the overall hardware cost including power cost, but also has the characteristics of good scalability, transparency to users, flexibility of on-demand distribution and load balance. Through the integration of multiple cloud storage technologies, the storage and data services in the storage resource pool composed of a large number of Makting AIPC + storage devices are provided to authorized users with a unified interface. Authorized users can arbitrarily access and manage the storage resource pool over the network, and pay for use.

Makting AI The remaining bandwidth of the vast mining machine is centralized into storage resources, and automatically managed by special software, without human participation. Users can use storage resources dynamically, without considering the complex technical details of large-scale storage systems such as data scalability and automatic fault tolerance, so as to focus more on their own business, which is conducive to improving efficiency, reducing costs and technological innovation. Makting AI Cloud storage has the following characteristics:




- **High Scalability:** The scale of Makting AI cloud storage can be dynamically expanded to meet the needs of data scale growth. Scalability has two dimensions: first, the system itself can easily dynamically increase server resources to cope with data growth, and second, meaning that the system size increases.

- **High Reliability And Usability:** Makting AI cloud storage provides high reliability and availability through technologies such as multi-copy replication and node fault.

- **Security:** Makting AI internal security through user authentication, access control, secure communication (such as HTTPS, TLS protocol) and other ways.

- **On-Demand Service:** A mine composed of a large number of Makting AI mining machines is a huge resource pool, which users buy on demand, like tap water, electricity and gas.

- **Transparent Service:** Makting AI mine provides services in the form of unified interface, such as RESTful interface, changes of back-end storage nodes, such as increasing nodes, node failure is transparent to users.

- **Automatic Fault Tolerance:** Makting AI systematic cloud storage can automatically handle node faults, so as to achieve operation and maintenance scalable, ensure high reliability and high availability.

- **Low Cost:** low cost is an important goal of cloud storage. The automatic fault tolerance of cloud storage can be built through Makting AIPC server; the universality of Makting AI PC server greatly improves the resource utilization, the automatic management of Makting AI greatly reduces the operation and maintenance cost, and the data center of Makting AI will be built in the area with rich power resources, thus greatly reducing the energy cost.

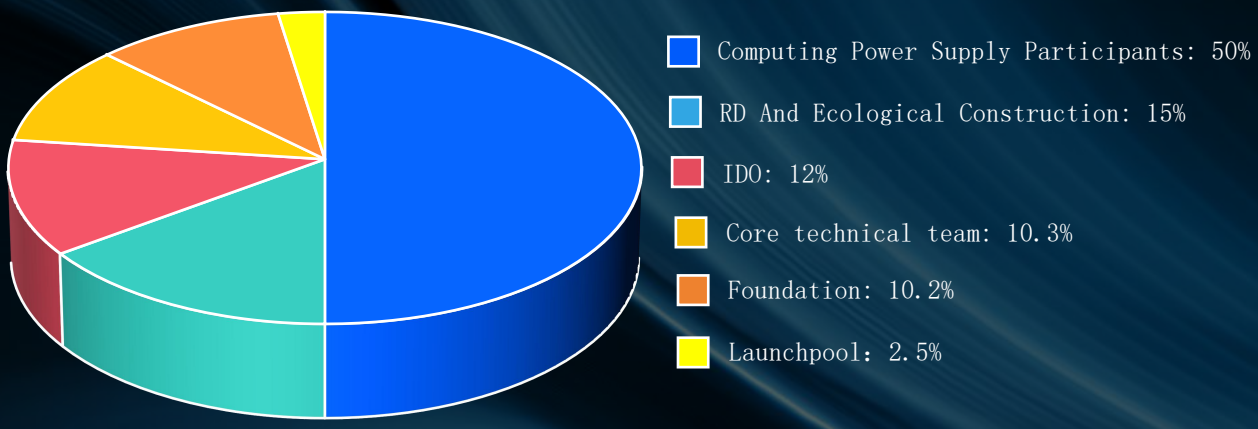
# 04 Business Logic

## 4.1 Makting AI Token Economic Model

MAKAI is the ecological tokens of Makting AI platform, with a total issuance set of 2.1 billion. Through the unique repurchase and destruction mechanism, with the launch of the project ecology, the repurchase and destruction mechanism will be continued, aiming to enhance the value of tokens through scarcity. As the core of the platform economic ecology, MAKAI runs through all transactions, incentives and governance activities, and is an economic link connecting users, creators, developers and investors.

- [Token name]: Makting AI
- [Token abbreviation]: MAKAI
- [Total issuance]: 2.1 Billion Pieces

The specific Allocation Of MAKAI Is As Follows:



a. 50% of the total token supply is allocated to computing power supply participants, designed to reward computing contributions and incentivize platform participation and growth.

b. 15% is allocated to R&D and ecosystem infrastructure, supporting the platform's research, development activities and ecosystem construction.

c. 12% is designated for investors participating in the IDO.

d. 10.3% is reserved for the project's core technical team.

e. 10.2% is allocated to the foundation.

f. 2.5% is reserved for Launchpool, where users can farm MAKAI tokens.

## 4.2 Makting AI Run The Logic

### Phase 1: Platform Access And Computing Power Input

In the first stage, the Makting AI platform will be connected to the GPU computing power resources of the B and C terminals, and invest in computing power in these three main sectors: GPU computing power investment, primary market development and GPU computing power machine gun pool. The benefits generated by these computing power inputs will be distributed proportionally to the corresponding GPU computing power provider.

### Phase 2: Open The POS Pledge System

Entering the second phase, Makting AI will open up the POS (Proof of Stake) pledge system to lower the threshold for user participation. The platform will allocate 10.2% of its total income to the corresponding pledgers, and the longer the pledge time, the higher the income. The move is designed to allow more users to participate in and benefit from the economy of the platform.

Through the operation logic of these two stages, the Makting AI platform can not only make efficient use of GPU computing resources, but also motivate all participants through the income distribution mechanism to promote the prosperity and development of the entire ecosystem.

## 4.3 The MAKAI Circulation Value

As a token of the Makting AI platform, the circulation value of MAKAI is reflected in many aspects, which not only supports the economic activities within the platform, but also plays an important role in the external market. The following is MAKAI as the Makting AI platform token, its circulation value is reflected in many aspects, which not only supports the economic activities within the platform, but also plays an important role in the external market. The following is a concrete manifestation of the circulating value of the MAKAI tokens:

### 1) Internal Economic Activities:

- ✓ **Computing Power Investment:** MAKAI tokens can be used to participate in computing power investment. Users can use MAKAI tokens to be used to participate in computing power investment. Users can use MAKAI to purchase computing power shares, and obtain the original tokens of other projects through computing power investment, so as to realize the long-term appreciation of computing power.
- ✓ **Mining Revenue:** users can participate in mining activities through MAKAI to obtain mining revenue. Smart contracts automatically distribute mining rewards to ensure transparency and fairness of earnings.
- ✓ **Resource Purchase And Lease:** Users can use MAKAI to purchase or lease GPU computing resources to support the needs of their AI and ML projects.
- ✓ **Governance And Voting:** MAKAI Holders can participate in platform governance, vote to determine the platforms development direction and major decisions, and enhance community participation and transparency.

### 2) External Market Value:

- ✓ **Trading And Circulation:** MAKAI is listed and traded on multiple cryptocurrency exchanges. Users can buy and sell MAKAI on exchanges and trade on multiple cryptocurrency exchanges. Users can buy and sell MAKAI on exchanges to realize the appreciation and circulation of assets.
- ✓ **Store Of Value:** MAKAI As a store of value tool, users can hold it as digital assets, reduce the circulation through the repurchase and destruction mechanism, and enhance the stability of the token value.

- ✓ **Cross-Chain Applications:** Through cross-chain technology, MAKAI can circulate on multiple blockchain platforms, broadening the application scenarios and circulation channels of tokens, and enhancing its market influence.
- ✓ **Partnerships:** MAKAI can be used to settle accounts with partners, promote cross-platform and cross-domain cooperation, and enhance ecosystem interoperability.

### 3) Repurchase And Destruction Mechanism:

- ✓ **Repo Mechanism:** Part of the proceeds of MAKAI tokens will be used. Part of the proceeds of MAKAI tokens in the repo market will be used for MAKAI in the repo market to reduce circulation and increase the value of tokens.
- ✓ **Destruction Mechanism:** The repurchased MAKAI will be destroyed, further reducing the circulation and increasing the scarcity and market value of tokens.

### 4) Ecosystem Construction:

- ✓ **Incentive Mechanism:** MAKAI Tokens encourage users to participate in the platform activities through the incentive mechanism, such as participating in computing power investment, mining activities, etc., to improve the activity of the platform.
- ✓ **Ecosystem Construction:** MAKAI tokens support the ecosystem construction, and attract more developers and users to join the platform through the investment and incentive mechanism, forming a virtuous cycle.

# 05 Core Team

## 5.1 Core Team

CEO Thabo

Thabo is a serial entrepreneur, graduated from the University of Cape Town in South Africa with a doctorate in business administration. He has more than 20 years of experience in software and product development. After that, Thabo will focus on blockchain technology, financial management and other aspects.

CMO Siyabonga

Siyabonga Worked in IBM, I am good at Internet operation, with rich experience in product management and operation, and have in-depth research on Internet media and traffic. In 2014, I came into contact with Bitcoin and started to engage in the operation of blockchain projects. Now I am mainly responsible for the international operation and promotion of Makting AI .

CTO Nomvula

Nomvula Graduated from computer Science, Strenbos University, South Africa. Have 10 years of experience in product technology. He has many years of experience in the development of we-media, chain travel and cloud computing. Has repeatedly led many high-growth startups and software development teams.

CSO Olivia

Olivia Director of Security Center, responsible for Makting AI security protection and security audit work, in 2000 began to enter the network security field, and engaged in Internet security attack and defense related work.

# 06 Future Vision

## 6.1 Future Vision

Makting AI The future vision is to build a highly personalized, intelligent, efficient and comprehensive education platform. Specifically,:

### Personalized Learning:

The AI will deeply analyze each students learning habits, abilities and interests, and provide tailored learning resources and paths to ensure that each student has the best education for him.

### Intelligent Tutoring:

The AI tutoring system will provide question-answering services for students around the clock, monitor their learning status in real time, adjust their teaching strategies in time, and help students master their knowledge efficiently.

### High-Efficiency Teaching Assessment:

Through big data analytics and machine learning, AI will accurately assess students academic performance and non-cognitive skills, providing a three-dimensional portrait of their growth to guide their personal development

### Optimization Of Educational Resources:

AI will help the intelligent allocation and optimization of educational resources, and ensure that educational resources can serve all students fairly and efficiently.

### Immersive Learning Experience:

Combined with virtual reality (VR) and augmented reality (AR) technology, AI will provide students with an immersive learning experience, making learning more vivid and interesting.

### Intelligent Management:

AI will also help schools to carry out intelligent management, improve management efficiency, promote home-school communication, and ensure the healthy growth and all-round development of students.

# 07 Disclaimer And Risk Tips

This document is used only for the purposes of conveying information and does not constitute any investment advice, investment intention or abetting investment. This document is not constituted or understood to provide any sale or any invitation to buy or sell any form of securities, nor is it any contract or commitment.

Makting AI It is clear that the relevant interested users have clearly understood the risks of the Makting AI platform. Once the investors participate in the investment, they will understand and accept the risks of the platform, and are willing to bear all the corresponding results or consequences personally.

Makting AI It clearly states that it will not bear any direct or indirect losses (including but not limited to) caused by its participation in Makting AI platforms:

(1) Economic losses caused by users trading operations;

(2) Any error, negligence or inaccurate information generated by personal understanding;

(3) Losses caused by personal transactions of various blockchain digital assets and any resulting behaviors;

(4) Violating the anti-money laundering, anti-terrorist financing or other regulatory requirements of any country when participating in the Makting AI platform;

(5) Having violated any representations, warranties, obligations, commitments or other requirements stipulated in this white paper while participating in the Makting AI platform.

## About MAKAI

MAKAI is an eco-token for the use of the Makting AI platform and all of its products.

MAKAI is not an investment. We cannot guarantee that MAKAI will increase in value. In some cases, MAKAI may also decrease in value. People who do not use MAKAI correctly may lose the right to use MAKAI, and may even lose their MAKAI. MAKAI is not a kind of ownership or control, and the holding of MAKAI does not represent the ownership of Makting AI or MAKAI application. MAKAI does not grant any individual any participation, control, or any MAKAI project or Makting AI application rights regarding decisions unless expressly authorized by Makting AI.

## Risk warning

**Policy Risks:** Blockchain technology is in the early stage. The regulatory policies of various countries for blockchain projects will be unclear, and the platform may have changes in the operation subject and operation management;

**Fluctuation Risk:** MAKAI is not legal tender, and the price fluctuates greatly, which requires investors to have a certain psychological tolerance;

**Technical Risk:** For the evolving blockchain technology, there is no guarantee to avoid the technology in the platform operationSurgical vulnerabilities and hacker attacks;

**Team Risk:** It cannot guarantee that the core personnel caused by pressure, physical, personal and other factors in the development process of Makting AI platform will leave. What can be guaranteed is that the replacement of the team will make the platform develop more steadily.