Search AI

ALGC Automatic Generation Solution

Tracing The Development Trajectory

If we talk about the hottest cutting–edge concept in the previous few years, naturally it is not the meta–universe, which used to be the life–saving straw for the whole technology industry and Internet industry. But with the concept of meta–universe gradually silent, AI players attention to this is also gradually declining, and precisely in the AI track atrophy, ChatGPT led AIGC killed back to the center of the scientific and technological context, AI players also seems to usher in the "breathe freely" moment.
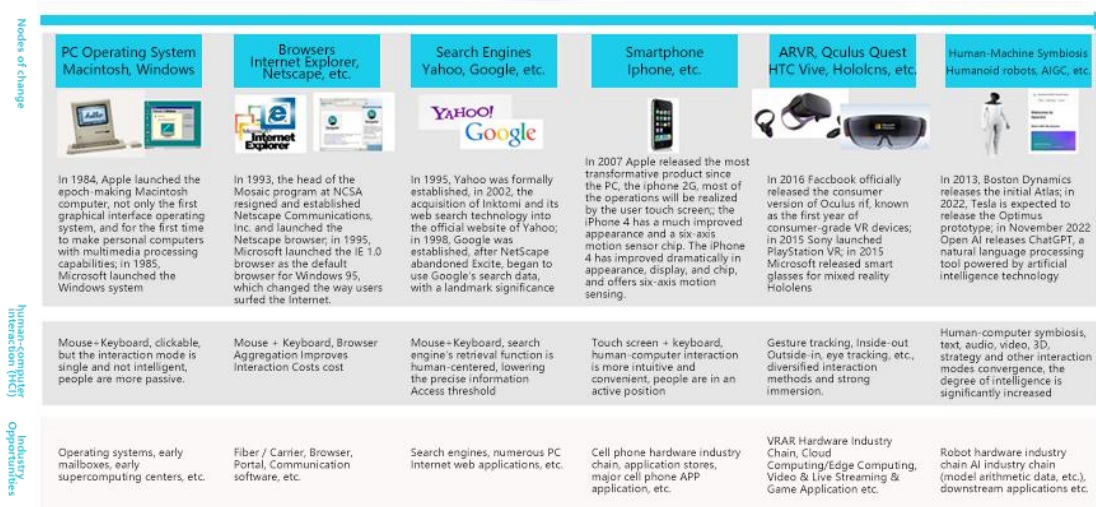
But AIGC is not a completely new thing. In fact, AIGC has been in development for decades. From the 1950s to the 1990s, AIGC was still in the early germination stage of small–scale experiments due to the limitation of technology level, and in 1950, Alan Turing put forward the famous "Turing test", which gave an experimental way to determine whether a machine is "intelligent" or not, which gave the development of AIGC a new impetus. In 1950, Alan Turing put forward the famous "Turing test", giving an experimental way to determine whether a machine is "intelligent" or not, which brought imagination to the development of AIGC. In 1957, the first string quartet composed by a computer, the Iliac Suite, was completed. This piece broke new ground – shattering the idea that music was a melodic expression of experience or feeling. In addition, in 1966, the world's first human–robot dialogue robot, Eliza, was successfully launched.

The AIGC field was next in line for a total rejuvenation. One of the major milestones is Open AI's launch of GPT–3 in 2020, which, as an automated language model with over 175 billion training parameters, is known as a "universal generator" that can not only answer questions, write essays, and generate code, but also write music scores and novels.

Subsequently, in 2021, Open AI launched the DALL–E model applied to text and image interaction to generate content, and in the same year, the cross–modal deep learning model CLIP was open–sourced, laying the foundation for the landing of the input text to generate images/video applications.

Today, ChatGPT has triggered a new wave of comprehensive development. AIGC that is truly rooted in application scenarios is not only more valuable, but also a more pragmatic way to realize, and the huge opportunities in the AIGC industry are rapidly unfolding.

Every round of human–computer interaction change brings industry–level investment opportunities

Nodes of change	PC Operating System Macintosh, Windows	Browsers Internet Explorer, Netscape, etc.	Search Engines Yahoo, Google, etc.	Smartphone Iphone, etc.	ARVR, Qculus Quest HTC Vive, Hololcns, etc.	Human-Machine Symbiosis Humanoid robots, AIGC, etc.
	In 1984, Apple launched the epoch-making Macintosh computer, not only the first graphical interface operating system, and for the first time to make personal computers with multimedia processing capabilities; in 1985, Microsoft launched the Windows system	In 1993, the head of the Mosaic program at NCSA resigned and established Netscape Communications, Inc. and launched the Netscape browser; in 1995, Microsoft launched the IE 1.0 browser as the default browser for Windows 95, which changed the way users surfed the Internet.	In 1995, Yahoo was formally established, in 2002, the acquisition of Inktomi and its web search technology into the official website of Yahoo; in 1998, Google was established, after NetScape abandoned Excite, began to use Google's search data, with a landmark significance	In 2007 Apple released the most transformative product since the PC, the iphone 2G, most of the operations will be realized by the user touch screen; the iPhone 4 has a much improved appearance and a six-axis motion sensor chip. The iPhone 4 has improved dramatically in appearance, display, and chip, and offers six-axis motion sensing.	In 2016 Faccbook officially released the consumer version of Oculus rif, known as the first year of consumer-grade VR devices; in 2015 Sony launched PlayStation VR; in 2015 Microsoft released smart glasses for mixed reality Hololens	In 2013, Boston Dynamics releases the initial Atlas; in 2022, Tesla is expected to release the Optimus prototype; in November 2022 Open AI releases ChatGPT, a natural language processing tool powered by artificial intelligence technology
human-computer interaction (HCI)	Mouse+Keyboard, clickable, but the interaction mode is single and not intelligent, people are more passive.	Mouse + Keyboard, Browser Aggregation Improves Interaction Costs cost	Mouse+Keyboard, search engine's retrieval function is human-centered, lowering the precise information Access threshold	Touch screen + keyboard, human-computer interaction is more intuitive and convenient, people are in an active position	Gesture tracking, Inside-out Outside-in, eye tracking, etc., diversified interaction methods and strong immersion.	Human-computer symbiosis, text, audio, video, 3D, strategy and other interaction modes convergence, the degree of intelligence is significantly increased
Industry Opportunities	Operating systems, early mailboxes, early supercomputing centers, etc.	Fiber / Carrier, Browser, Portal, Communication software, etc.	Search engines, numerous PC Internet web applications, etc.	Cell phone hardware industry chain, application stores, major cell phone APP application, etc.	VRAR Hardware Industry Chain, Cloud Computing/Edge Computing, Video & Live Streaming & Game Application etc.	Robot hardware industry chain AI industry chain (model arithmetic data, etc.), downstream applications etc.

AIGC will be a productivity tool in the Web3.0 era. As we step into the Web3.0 era, artificial intelligence, Linked Data and semantic network construction form a brand new link between people and the web, and the demand for content consumption grows by leaps and bounds, it will be difficult to match the expanding demand with content generation methods such as UGC\PGC.

AIGC By pre–training on huge datasets, the platform model is able to capture more semantic and syntactic laws, thus generating more accurate and natural text and image content. Whether it's natural language processing, machine translation, or image generation, these big models show amazing performance in a variety of tasks.

Search AI's future combination of intelligent scene perception and intelligent interactions with each other can imagine a whole new way of human–computer interaction. For example, in a smart supermarket, an AI system can provide a more personalized shopping experience by sensing and understanding customer behavior and needs.

CONTENT

Search AI

Content

CONTENT

Content

Search AI Platform Incentives
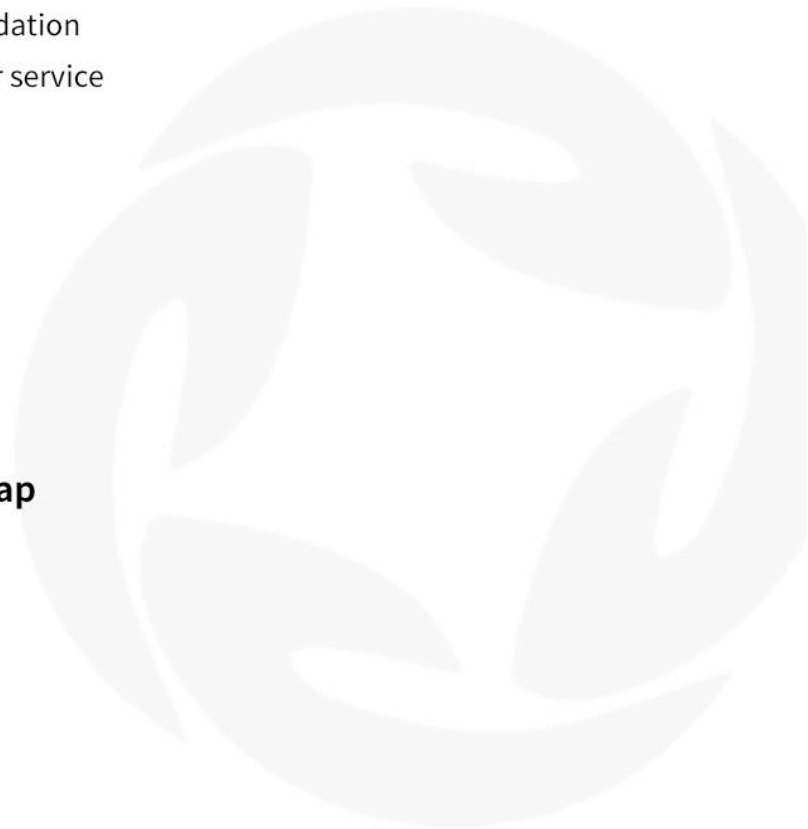
-Token Distribution

-Token Incentive

-Token Value

Search AI Application Scenarios

-Content Generation

-Digital Human Assistant

-Game development

-Creative design

-Data enhancement

-Content recommendation

-Intelligent customer service

-Financial analytics

-Role-playing

-Metadata creation

Search AI Team

SearchAI Roadmap

Conclusion

1.1 AIGC Industry Mapping

Artificial Intelligence Generated Content (AIGC) is a brand new technology field in recent years. With the continuous development of the technology and the expansion of the application scenarios, AIGC has gradually become an important tool for digital content production, which has attracted widespread attention.

RICHER AND MORE DIVERSE APPLICATIONS

AIGC technology has been widely used in image generation, audio synthesis, video production, text creation, etc., and more abundant and diverse application scenarios will emerge in the future. For example, in game development, AIGC can help game designers automatically generate various elements, such as characters, terrain, props, etc. In social media, AIGC can help users automatically generate beautiful images and short videos to improve the user's interactive experience.

CROSS-MODAL GENERATION

The current AIGC technology mainly targets single–modal data, but the future AIGC will support cross–modal generation, i.e., combining data from different modalities to generate more complex content, such as converting text into images or videos. This will greatly expand the application scope of AIGC and enable it to meet more complex creative needs.

ADAPTIVE GENERATION
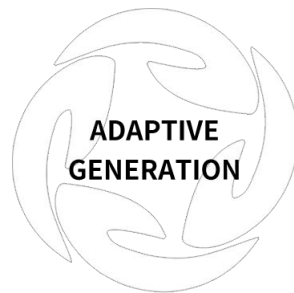
The future AIGC will have a more adaptive generation capability, i.e., it will be adjusted and optimized according to users' feedback and needs during the generation process. For example, in terms of image generation, AIGC can generate images according to the user's preferences and make corresponding adjustments when the user proposes modifications, thus making the generated content more in line with the user's needs.

INCREASED PRODUCTIVITY

With the continuous development of technology, AIGC will become an important tool for digital content generation, dramatically improving production efficiency. For example, in advertising production, AIGC can help producers quickly generate posters, promotional videos, etc., thus shortening the production cycle and reducing production costs。

HUMAN-COMPUTER INTERACTION

Based on sensors, cameras, radar and other technologies, computers can sense the environment and user behavior. This allows the system to respond more intelligently to the environment and user needs.

Number of content generated	Quality of content generation
Total cost of content generation	Unit cost of content generation
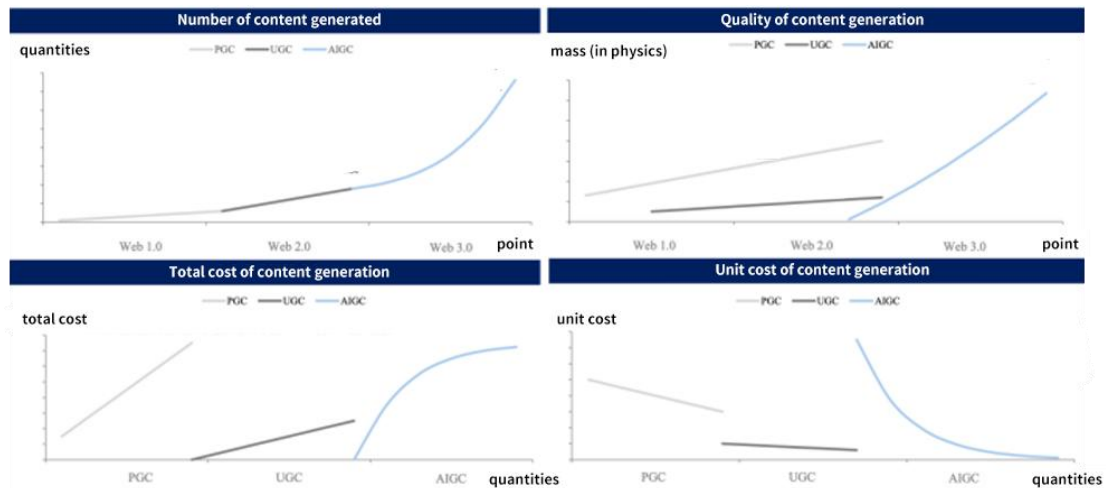
AIGC in addition to efficiency improvement, creation supply, promote multiple industries to reduce costs and increase efficiency, also has a transformative power to the meta–universe, so that the entire meta–universe is built on the digital world, digital content, for example, the meta–universe landed case of the digital person, through the way of AIGC to create content, it activates the digital person, the digital person and the digital person to produce a connection, produce a dialogue, which is a revolutionary change in the meta–universe. "Every frame we observe in the meta–universe requires a lot of arithmetic and consumption, it is very heavy workload to rely on manual creation, and smart AI is needed to create content."

1.2 AIGC Technology Frontier Exploration

The breakthrough of AIGC technology will lead the application of artificial intelligence to a wider range of fields, promote the innovation and application of intelligent technology in the medical, financial, transportation and other industries, and bring a higher level of intelligent services and changes to society.

LARGE-SCALE PRE-TRAINED MODELS

The AIGC platform realizes large-scale pre-training of the underlying models by using large-scale training data and powerful computational resources. This approach allows the model to self-learn on massive data and automatically discover and extract features. Through pre-training, the models can learn generalized semantics and knowledge representations to excel in various tasks.

MULTIMODAL FUSION

The underlying model of the AIGC platform is capable of simultaneously processing data in multiple modalities, such as text, images, and audio. By feeding data from different modalities into the model and performing joint learning and reasoning, the AIGC platform is able to understand and represent the data more comprehensively. For example, in the image description generation task, the model can combine image content and text semantics to generate more accurate and enriched image descriptions.

LONG-TERM MEMORY AND CONTEXTUAL UNDERSTANDING

The underlying model of the AIGC platform employs techniques such as Long Short–Term Memory Networks (LSTM), which enable the model to better capture long–term dependencies and contextual relationships in sequential data. This technological breakthrough is important for natural language processing tasks, such as in machine translation tasks, where the model can better understand the semantic and syntactic structures in a sentence and generate more accurate translation results.

INCREMENTAL LEARNING AND ONLINE UPDATES

The underlying model of the AIGC platform realizes the capability of incremental learning and online updating. Traditional offline training methods require re–training the entire model, which is less efficient and unable to meet real–time demands. By introducing incremental learning technology, the AIGC platform can quickly learn new data on the basis of the existing model and realize online updating of the model. This capability enables the AIGC platform to flexibly respond to changes in new data and scenarios and continuously improve model performance and adaptability.

1.3 AIGC Contributes To The Development Of Web 3.0

Web3.0 is a new stage of Internet development, a decentralized world. In the world of Web3.0, the value of the Internet is ultimately attributed to the users, making the life of all people more convenient and easier. And blockchain technology has become the most powerful driving force of Web3.0 because of its features such as distributed storage, tampering, information encryption, and Tokenization of data rights and interests.

The emergence of Token economy and digital assets also allows users to participate in voting and dividends, realizing the positive interaction between developers and messengers. Users are both users, creators and maintainers, and this behavior can be understood as Open Data, which is an important part of Web3.0 development.

AIGC plays an important role in promoting the development of Web3.0. Through technological breakthroughs in decentralized data storage and privacy protection, smart contracts and decentralized autonomy, decentralized markets and transactions, decentralized authentication and trust mechanisms, it provides innovative solutions for the development of Web3.0 and promotes the progress of the digital economy and society.

DECENTRALIZED DATA STORAGE AND PRIVACY PROTECTION

AIGC utilizes blockchain and distributed storage technology to achieve decentralized data storage and management. Traditional Web2 applications often store user data centrally on centralized servers, with the risk of data leakage and misuse. The AIGC platform, however, adopts a decentralized data storage method, storing data in multiple nodes in the network in a decentralized manner, which improves data security and privacy protection. Users can use the AIGC platform with greater confidence without worrying about the misuse or leakage of personal information.

SMART CONTRACTS AND DECENTRALIZED AUTONOMY

The AIGC platform realizes a decentralized autonomous mechanism through smart contract technology. Smart contracts are self–executing contracts that do not require third–party intervention to ensure credible and fair transactions.AIGC platform utilizes smart contracts to build an autonomous ecosystem, and users can participate in the platform's decision–making and governance through smart contracts. This decentralized and autonomous mechanism provides users with greater participation and decision–making power, and enhances the transparency and fairness of the platform.

DECENTRALIZED MARKETS AND TRANSACTIONS

The AIGC platform establishes a decentralized marketplace and trading system that allows users to freely trade and circulate digital assets. Traditional Web2 applications usually rely on centralized trading platforms or third–party payment institutions, which have problems such as high transaction intermediary fees and slow transaction speed. The AIGC platform, however, realizes direct peer–to–peer transactions through blockchain technology, removing intermediate links, reducing transaction costs, and improving transaction efficiency. Users can trade digital assets more conveniently and enjoy the convenience and freedom brought by the decentralized market.

DECENTRALIZED AUTHENTICATION AND TRUST MECHANISMS

The AIGC platform utilizes the decentralized authentication and trust mechanism of blockchain to provide users with a more reliable authentication and trust system. In traditional Web2 applications, authentication and trust often rely on centralized institutions or third–party verification, which has identity leakage and trust problems.
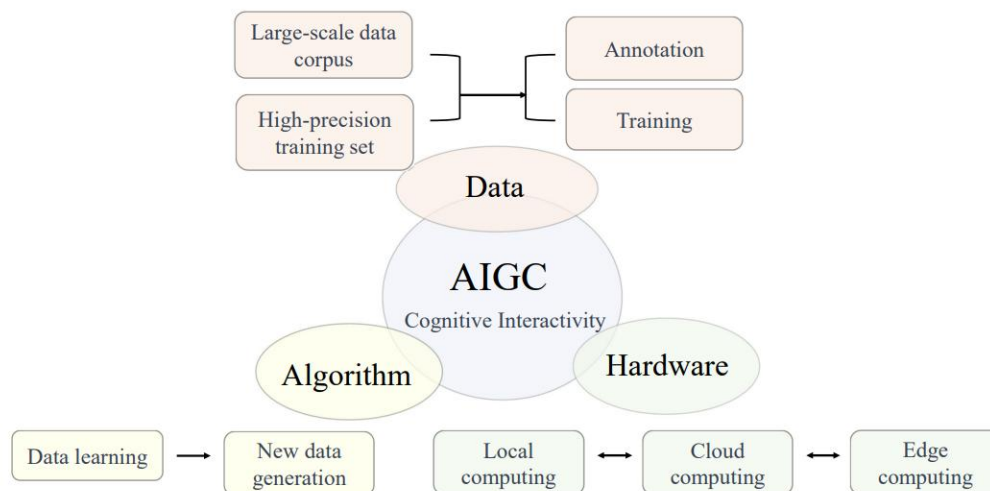
The AIGC platform, however, establishes a decentralized identity verification and trust network through the blockchain's tamperability and distributed verification mechanism. Users can use their own digital identities for verification without relying on a third party, which improves the security and trustworthiness of identity verification.

Search AI Platform Overview

2.1 Search AI Solutions

Search AI is a trend–setting Artificial Intelligence company focused on providing innovative solutions and tools for the AIGC (AI Generated Content) space. We are committed to providing efficient, intelligent and creative app development support to developers and organizations. In addition, we have developed a unique APP application, Search GPT, which combines the platform with the GPT family of AI models to bring an unprecedented interactive experience to users.
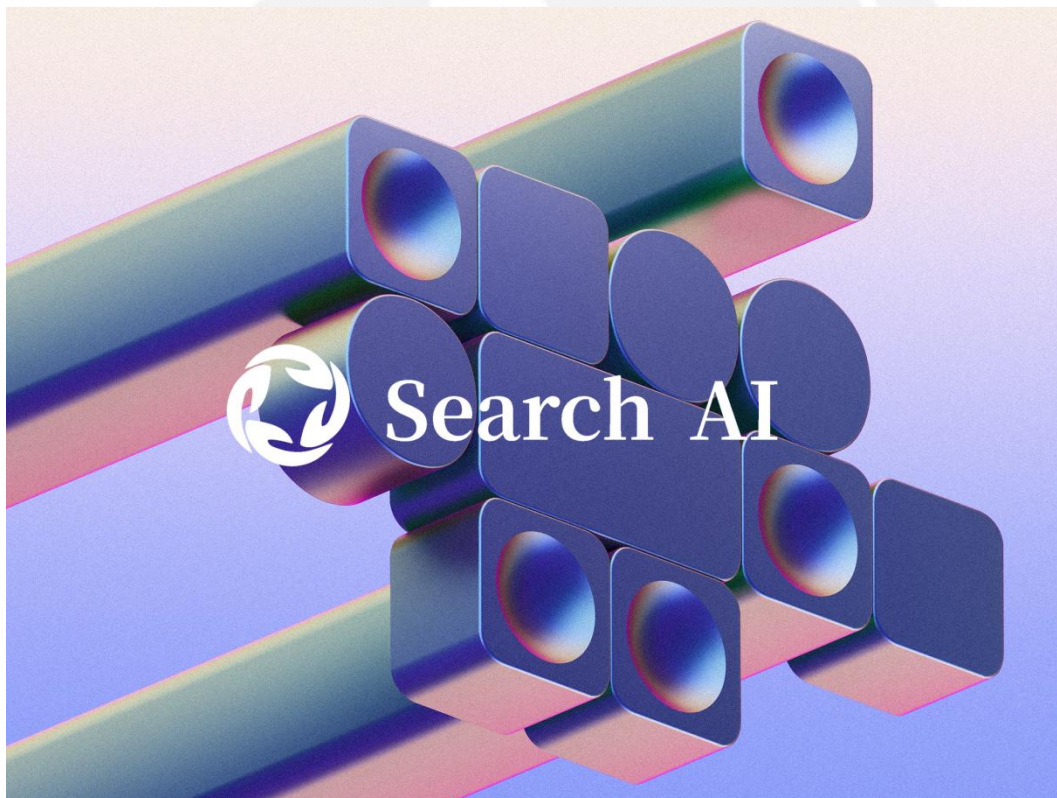
With Search AI, developers can utilize our smart generation technology to inject creativity and innovation into their applications. Our solutions not only increase productivity, but also provide a better user experience. Whether it's automated content creation or personalized user interactions, our platform is able to provide customized solutions.

In an era of increasing digitization and intelligence, Search AI is committed to pushing the frontiers of AIGC technology and providing a platform for innovators to unleash their imagination. We believe that through collaboration and innovation, AIGC will create more amazing applications in various fields and create a better future for mankind.

·Powerful model library

The Search AI platform has an extensive and powerful model library covering a wide range of NLP and AIGC models. These models are carefully trained and optimized to deliver superior performance and results across a wide range of tasks and scenarios. Whether it's text categorization, named entity recognition, machine translation, or text generation, developers can find the right model for their needs in the model library.

·Model fine-tuning and customization

The Search AI platform provides flexible model fine-tuning and customization capabilities that enable developers to train and optimize models based on their data and needs. Developers can use the tools and resources provided by the platform to meet specific application needs by fine-tuning existing models or training custom models from scratch.

·Transform Chat

Transform Chat for the Search AI platform is a powerful dialog generation toolkit that provides pre-trained dialog models, dialog generation tools, dialog evaluation and fine-tuning techniques, as well as community support and model sharing capabilities. It enables developers to rapidly build and deploy high-quality dialog systems and provides a convenient and reliable solution for dialog generation tasks.

·Model sharing and community collaboration

Search AI encourages developers to share their models, datasets, and code on the platform. This culture of open sharing fosters community collaboration and knowledge exchange, allowing for more rapid innovation and progress. Developers can get valuable feedback and advice from the community, as well as learn from others' experiences and best practices.

·Rapid deployment and integration

The Search AI platform provides convenient model deployment tools and APIs that enable developers to easily integrate trained models into their applications. Whether reasoning in the cloud or on edge devices, the platform provides an efficient and scalable deployment solution to help developers quickly embed intelligent NLP capabilities into real-world applications.

·NFT Metadata Creation

SearchAi, as a creative assistant, helps you generate unique digital content, such as artwork, illustrations, designs, storylines, etc. It also uploads images to generate NFTs and creates metadata for you, including links to images, creator information, copyright notices, etc. It helps you generate standardized metadata to ensure your NFTs are complete, compliant and easily identifiable. We help you generate standardized metadata to ensure that your NFT is complete, compliant and easy to identify.

·PublicChain

Search AI Platform's PublicChain builds a secure and decentralized data collaboration and sharing framework for developers.
This innovative solution combines blockchain technology and cryptographic algorithms to ensure data privacy and enable secure data exchange and sharing.

In this public chain system, data security and integrity are maximized. Through the decentralized nature of blockchain technology, data is no longer centrally stored in a single entity, but distributed across multiple nodes in the network, thus greatly reducing the risk of malicious tampering or attack on data.

PublicChain's interoperability enables different data sources and systems to work together seamlessly to achieve efficient data sharing and flow. Developers can easily integrate data from different platforms into this framework, facilitating cross–system and cross–organizational data collaboration. In addition, the scalability of the platform supports future growth in data size and ensures that the system can continue to operate efficiently.

This solution has the potential for a wide range of applications in different fields. For example, in the medical field, hospitals can share patient data through PublicChain to improve the accuracy of medical decisions; in supply chain management, enterprises can share real–time data to optimize logistics and inventory management. The highly trustworthy nature of PublicChain also provides financial institutions with a secure data exchange platform for compliance monitoring and transparency of transaction records.
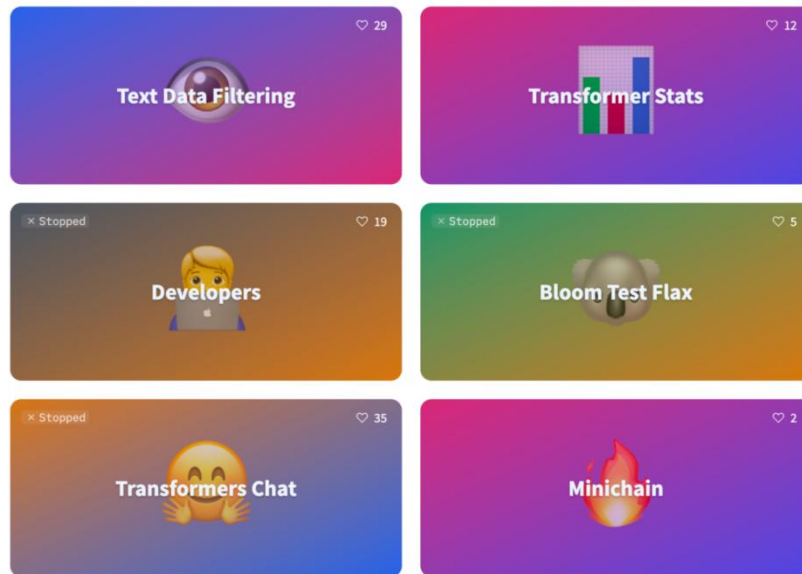
Search AI's PublicChain is an innovative decentralized blockchain network built and designed specifically for the Search AI community.

PublicChain is based on blockchain technology and utilizes the Proof–of–Stake (PoS) consensus mechanism to ensure a highly scalable and secure network. The platform provides developers with a comprehensive new solution for AIGC by offering a powerful model library, training and fine–tuning tools, model sharing and community support, as well as easy deployment and inference capabilities.

2.2 Search AI Background Organizations

America SearchAI Foundation is a K–State based Artificial Intelligence research lab that is dedicated to advancing AI technology and conducting cutting–edge research in a number of areas.

America SearchAI Foundation was founded with the goal of bringing AI research to the forefront and providing innovative solutions to complex real–world problems. The lab focuses on the research and application of deep learning, reinforcement learning, neural networks, and other AI technologies.

America SearchAI Foundation's research projects cover a wide range of fields, including gaming, healthcare, natural language processing, and Token economics. Among them, the success of the AlphaGo project in the field of Go has attracted widespread attention, which has led to the realization of the great potential of deep learning and reinforcement learning in complex decision–making and gaming. The lab's research results are not limited to academia, but have also had a significant impact in real–world applications.

In conclusion, America SearchAI Foundation, as a laboratory leading the research and application of artificial intelligence, has made remarkable achievements in the fields of deep learning and reinforcement learning, opening up new paths for the development and application of AI technology.

2.3 Search AI Natural Language Processing NLP

Search AI Natural Language Processing is a means of realizing how people and computers can interact with each other through natural language. It combines linguistics, computer science, and mathematics to enable computers to understand natural language, extract information, and automatically translate, analyze, and process it. Before the development of natural language processing technology, human beings could only communicate with computers through some fixed pattern commands, which is a major breakthrough for the development of artificial intelligence.
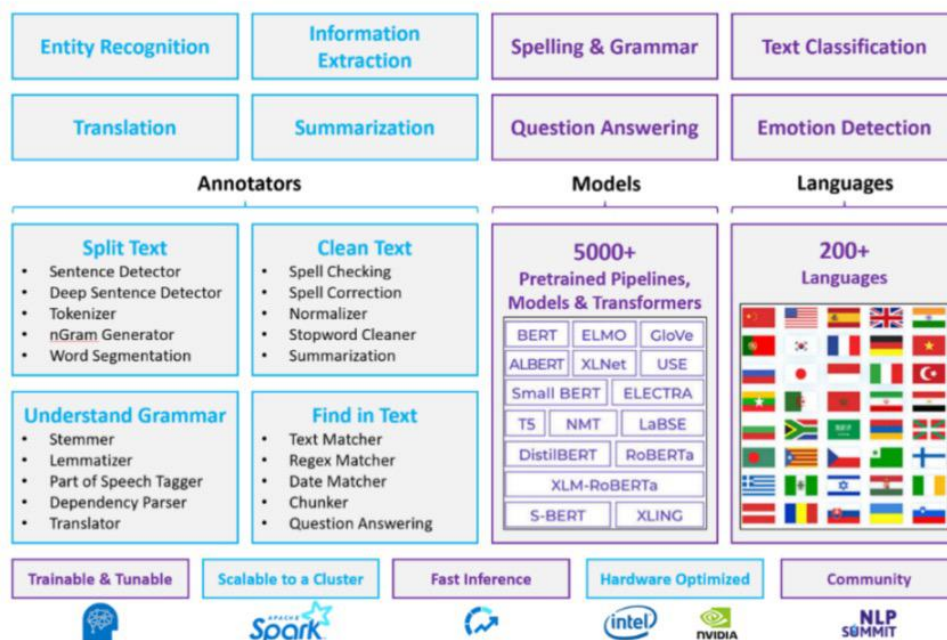
Natural language processing can be traced back to 1950, when Turing published his paper "Computing Machinery and Intelligence" and proposed the concept of "Turing Test" as a condition for judging intelligence.

2.4 Search AI AIGC Generation Algorithm

Search AI AIGC's rapid development is attributed to the accumulation of technologies in the field of generative algorithms, which include: generative adversarial networks (GANs), variational differential autoencoders (VAEs), normalized flow models (NFs), autoregressive models (ARs), energy models, and diffusion models (Diffusion Model).
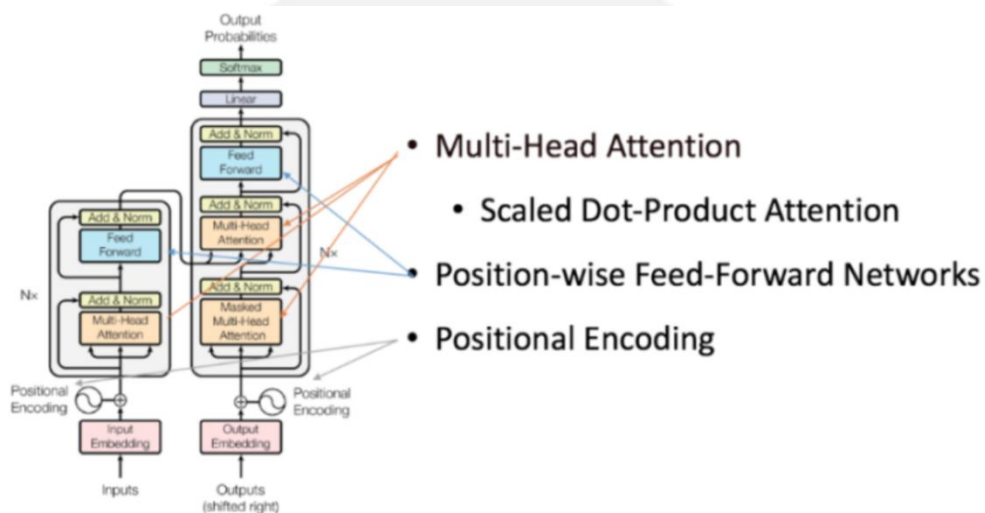
As you can see, big model, big data, big computing power is the future development trend and the breakthrough of algorithmic model is the catalyst for the rapid breakthrough of AIGC in recent years.

Search AI Architecture

3.1 Design principles

The Search AI Platform is a Natural Language Processing (NLP)–based developer community and tool repository designed to provide a wide range of NLP solutions and resources. The platform's architecture covers several components and features to support developers in a variety of NLP tasks.

1) Model Architecture

The core of the Search AI platform is its model architecture, which consists of pre–trained models, Fine–tuning models and generative models. Pre–trained models are models trained based on large–scale datasets with a wide range of language comprehension capabilities.Fine–tuning models are fine–tuned on top of pre–trained models to fit the needs of specific tasks and domains. Generative models, on the other hand, focus on generating natural language text and dialog.

2) Transformers Library

Search AI's Transformers library is one of the core tools of the platform, providing implementations of various pre–trained models and training tools. This library supports a variety of common NLP tasks such as text categorization, named entity recognition, sentiment analysis, and machine translation. Developers can use the Transformers library to load, train and evaluate pre–trained models as well as Fine–tuning on specific tasks.

3) Datasets Library

Search AI's Datasets library provides rich datasets for training and evaluating NLP models. These datasets cover a wide range of tasks and languages, including text categorization, Q&A, named entity recognition, and more. Developers can use the Datasets library to acquire and process these datasets to make them suitable for model training and evaluation.

4) Pipeline Tools

The Search AI platform also provides Pipeline tools for streamlining the flow of common NLP tasks. These tools include text generation, sentiment analysis, question answering, etc., which developers can use to quickly apply and test the performance of models.
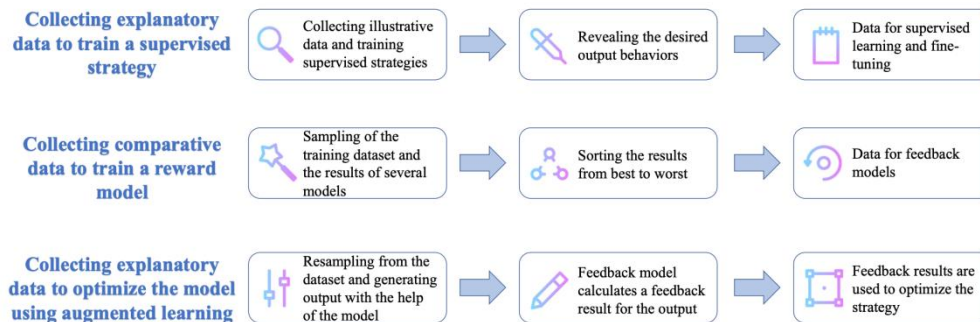
In summary, the architecture of the Search AI platform includes components such as Model Architecture, Transformers Library, Datasets Library, Pipeline Tools and Model Sharing and Community Support. These components provide a rich set of resources and tools that make it easier for developers to build, train, and deploy high-quality NLP models and foster growth and innovation in the AIGC field.

3.2 Design Principles

1) User-friendliness and ease of use
The Search AI platform focuses on user-friendliness and ease of use, working to provide simple yet powerful tools and interfaces. The designers sought to make the platform intuitive for developers, enabling users to get started quickly and get the results they need. Clear documentation, sample code and tutorials are provided to help users quickly understand and use the platform's features.

2) Open source community and spirit of sharing
The Search AI platform encourages the open source spirit of openness and collaboration by creating a strong community where developers can share models, code and experiences. The platform provides a model repository and a forum where developers can communicate and collaborate to advance the field of NLP. This sharing spirit promotes rapid iteration and improvement of models and techniques.

3) Reusability of Models
The Search AI platform is committed to building reusable model architectures and components so that developers can reuse them across different tasks and domains. By providing a wide range of pre-trained models and fine-tuning tools, it enables developers to quickly build and customize NLP models for their own applications. This reusability accelerates the model development and deployment process, while facilitating knowledge dissemination and sharing.

4) Balance of efficiency and performance:
The Search AI platform focuses on model performance and quality while pursuing efficiency. By using pre-trained models and Fine-tuning technology, the platform is able to provide models with strong semantic understanding while maintaining efficient processing speed. This balance enables developers to quickly build high-performance NLP applications that improve user experience and meet business needs.

5) Technological innovation and experimental features:

The Search AI platform encourages technological innovation and exploration of experimental features to advance the NLP field. The platform provides experimental features and models for developers to research and practice. This innovative support enables developers to try out new methods and technologies, thus promoting cutting—edge exploration and breakthroughs in the NLP field.
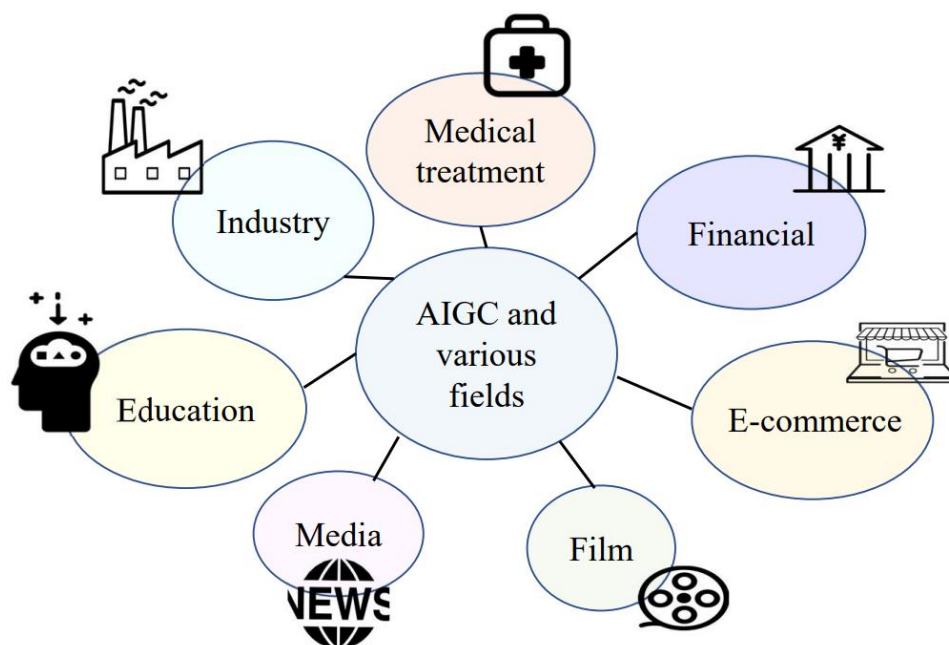
In summary, the Search AI platform is designed on principles of user—friendliness and ease of use, open source community and sharing spirit, model reusability, balance of efficiency and performance, and technological innovation and experimental features. By being guided by these principles, the platform provides developers with a powerful and flexible tool to facilitate the development and application of AIGC technology.

3.3 Transformer Model

The Transformer model is a deep learning model that employs a self–attention mechanism that assigns different weights to various parts of the input data according to their importance. In addition to NLP, it is also used in the field of computer vision. Like Recurrent Neural Networks (RNN), the Transformer model is designed to process sequential input data such as natural language, and can be applied to tasks such as translation and text summarization. Unlike RNNs, Transformer models are able to process all input data at once. The attention mechanism can provide context for any position in the input sequence. If the input data is natural language, Transformer doesn't have to process one word at a time like an RNN, and this architecture allows for more parallel computation and, in doing so, reduces training time.

3.4 GAN Generative Adversarial Networks

GAN, a deep neural network architecture, consists of a generative network and a discriminative network. The generative network generates 'fake' data and tries to deceive the discriminative network; the discriminative network discriminates the generated data from the true to the false and tries to correctly recognize all the 'fake' data. During the training iterations, the two networks continue to evolve and fight against each other until they reach an equilibrium state, where the discriminative network can no longer recognize the "fake" data and the training ends.

GANs are widely used in industries such as advertising, gaming, entertainment, media, pharmaceuticals, etc. They can be used to create fictional characters, scenes, simulate face aging, image style transformations, and generate chemical molecular formulas, among others.

Search AI Core Features
4.1 Diffusion Model

Diffusion models are a new type of generative model that produces a variety of high−resolution images. They have attracted a lot of attention after OpenAI, Nvidia, and Google sought to train large models. Example architectures based on diffusion models include GLIDE, DALLE−2, Imagen and the fully open source Stabilized Diffusion. Diffusion models already have the potential to represent the next generation of image generation models. DALL−E, for example, is capable of generating images directly from textual descriptions, giving computers the power of human creativity.

4.2 Variable Differential Auto Encoder (VAE)

Variational Autoencoder (VAE) is a generative model for learning potential representations of data and generating new samples. It combines the ideas of Autoencoder and probabilistic inference to model and generate data by introducing hidden variables between the encoder and decoder.

4.3 Standardized Flow Models (NFs)

The Search AI platform models and generates data by transforming simple probability distributions into complex probability distributions through a series of invertible transformations.The core idea of NFs is to use invertible transformations to map simple prior distributions (usually Gaussian) to complex posterior distributions. These invertible transforms allow us to operate in two directions: from the input space (the data space) to the latent space (the sample space of simple distributions), and from the latent space to the output space (the sample space of complex distributions). In this way, NFs are able to progressively transform simple distributions into complex distributions that are more similar to real data distributions.

4.4 Energy Modeling

Search AI's Energy Model is an important tool for evaluating and measuring the quality of generated content. Energy modeling is used to capture and quantify various aspects of generated content, including grammatical correctness, semantic coherence, information richness, etc. by training deep neural networks.

The training process of energy models is usually based on large-scale textual datasets using supervised learning methods. During the training process, the model learns mapping relationships from the input data (e.g., sentences, paragraphs, or images) to the corresponding energy scores. These energy scores reflect the quality and reasonableness of the generated content and can be used to measure the strengths and weaknesses between different generated samples.

Search AI Platform Incentive

Search AI's PublicChain is a groundbreaking decentralized blockchain network built exclusively for the Search AI community to build a more efficient and secure environment for data sharing and interaction. Based on advanced blockchain technology, the platform utilizes the Proof–of–Stake (PoS) consensus mechanism, combining excellent scalability and security.

This innovative ecosystem allows users to create and manage rules and conditions for data sharing through smart contracts, thus ensuring complete data security and privacy protection. In addition, the platform builds a comprehensive authentication and permission management mechanism to ensure that only authorized users can access and use specific data resources. This provides users with confidence and assurance that they can participate in data exchange and sharing activities with greater confidence.

Search AI has also introduced Token SOSO as a means of incentivizing an drewarding contributors and participants in the platform's ecosystem. Thes e Token can be used not only to purchase data resources and pay transactio nfees, but also to participate in ecosystem governance decisions. The introduction of ecological Token not only promotes active interactions within the platform, but will also inspire users to participate and contribute at a deeper level.Through the deployment of Public Chain Search AI aims to build a sustainable ecosystemThis ecosystem not only guarantees efficient data sharing and interaction technically, but also creates a virtuous cycle through the introduction of Token in the economic model, which drives the platform community to flourish. This innovative blockchain network will emower the Search AI community with more control and participation, while creating a more secure and efficient future in the data space.

5.1 Token Allocation

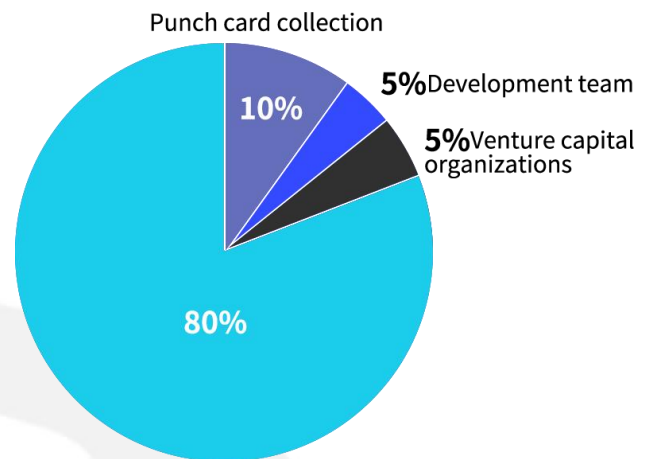Token：SOSO

Quantity: 2.1 billion pieces

Distribution Is As Follows:

Punch card collection: 10% 210 million coins

Arithmetic output: 80% 1.68 billion pieces

Development team: 5% 105 million

Venture capital organizations: 5% 105 million coins

5.2 Token Value

Value Of SOSO

SOSO, as the platform's Token, has a strong deflationary and upside logic in addition to its governance function. This deflationary mechanism causes the supply of SOSO to gradually decrease and relative scarcity to increase. The change in supply and demand helps drive the price of SOSO up as it becomes increasingly difficult for miners to acquire more SOSO, thus increasing the value of existing SOSO.

–Governance Value

SOSO is a governance Token that allows holders to participate in the decision–making and governance process of the project by holding and participating in voting. Holders of SOSO can express their opinions, make suggestions, and participate in voting on important decisions, including the direction of the project, upgrades and improvements to the protocol, and adjustments to the reward mechanism. This governance power allows SOSO holders to become part of the project's development and to be able to have a real impact on the future development of the project.

–Incentive Mechanisms

SOSOs are usually closely linked to the project's ecosystem, and holders can earn more SOSO rewards by participating and contributing to the project's activities. This incentive mechanism encourages community members to actively participate in the development of the project, contributing to the prosperity of the project and the growth of the ecosystem. SOSO holders can earn more rewards by participating in community activities, providing technical support, promoting the project, etc., which in turn increases the number of SOSOs they hold.

–Rising Logic

The rise logic of SOSO is usually related to the success of the project and the growth of the ecosystem. When the project makes progress, the number of users increases, and the ecosystem thrives, the demand for SOSO increases. This increase in demand may come from participation in governance voting, incentives from reward mechanisms, contributions from participation in the ecosystem, and so on. As projects succeed and ecosystems expand, the scarcity of SOSOs may increase, driving up their prices.

Overall, SOSO has significant value and upside logic as a governance Token. Holders can benefit by participating in the governance of the project, mining, earning rewards, and the increased demand that comes with the success of the project. However, it is important to note that the cryptocurrency market is volatile and investors should make their own investment decisions based on an understanding of the risks.

Search AI Scenarios

–Content Generation

Search AI can be used to generate various types of content, including text, images, audio, and more. It can automatically generate text content such as articles, news, stories, scripts, poems, and more, helping creators to increase creative efficiency and diversity.

–Digital Human Assistant

Search AI can be used to develop digital human assistants such as voice assistants and chatbots. These digital human assistants are capable of interacting with users in natural language and providing various services such as providing relevant information, answering questions, and offering advice. The platform technology enables digital human assistants to understand and respond to the user's needs in a more intelligent and natural way.

–Game Development

Search AI plays an important role in game development. It can be used to generate game storylines, dialog content, quest and level design, and more. Through the platform, game developers can provide richer and more diverse game content and offer players a more challenging and interactive gaming experience.

–Creative Design

Search AI can be used to assist in the creative design process. It can generate creative inspiration, design sketches, prototypes, etc., providing designers with new creative directions and references. The platform can also generate artwork, pattern designs, advertising ideas, etc., injecting more creativity and diversity into the creative design field.

–Data Enhancement

Search AI can be used for data enhancement, especially in machine learning and deep learning tasks. By generating new sample data, the platform can help improve the generalization ability, anti–interference ability and robustness of the model. Data enhancement techniques can be applied to various machine learning tasks such as image classification, speech recognition, natural language processing, and more.

–Content Recommendation

Search AI can be used for personalized content recommendation systems. It can generate personalized recommendation content by analyzing the user's historical behavior, interests, and preferences, providing users with more accurate content recommendations that match their interests. The personalized recommendation system can be applied to various content distribution platforms such as social media, e–commerce, and news platforms.

–Intelligent Customer Service

Search AI can be applied to intelligent customer service systems by automating answers to frequently asked questions, resolving user queries and providing support. It can engage in real–time conversations with users and provide accurate and personalized answers through natural language processing and dialogue generation technologies.

–Financial Analytics

Search AI can be used for data analysis and forecasting in the financial sector. It can analyze a large amount of financial data, including market trends, stock trading, risk assessment, etc., and provide data–driven decision support and prediction models. The platform technology can help investors, financial institutions and traders make more accurate and intelligent financial decisions.

–Role Play

Search AI can be used to create virtual actors and characters, for example in movies, games and virtual reality. By generating the appearance, movement and dialogue of digital characters, the platform can give a more realistic and personalized representation of characters in the virtual world, enhancing user immersion and engagement.

–Metadata Creation

Search AI can also upload images to generate NFTs, including the creation of metadata for you, including image links, creator information, copyright notices, and more.

Search AI Team

Search AI is a major AIGC platform launched by America SearchAI Foundation, with a mission to provide innovative solutions and tools to help developers build efficient, intelligent and creative applications.

America SearchAI Foundation is an AI company based in the U.S. The company's core co–founders are John Smith, Emily Massa, and Andrew Chusetts.The platform's goal is to utilize AI technology to solve complex, real–world problems and to advance cutting–edge research in AI. John Smith, the core figurehead of the platform, has extensive experience and a deep background in artificial intelligence.

Key Member

Alice Smith
With a Master's degree in Computer Science from UC Berkeley, he is a technical expert on our team. He has extensive experience in the field of Artificial Intelligence, especially excelling in machine learning and data mining. He has worked as a Chief Data Scientist at an AI startup, where he successfully developed several intelligent recommendation systems and data analytics tools. He has excellent skills in project management, team collaboration, and efficiently solving complex technical challenges.Alice Smith's technical depth and innovative thinking make her a key pillar of the team, contributing to the successful advancement of projects and technological innovation.
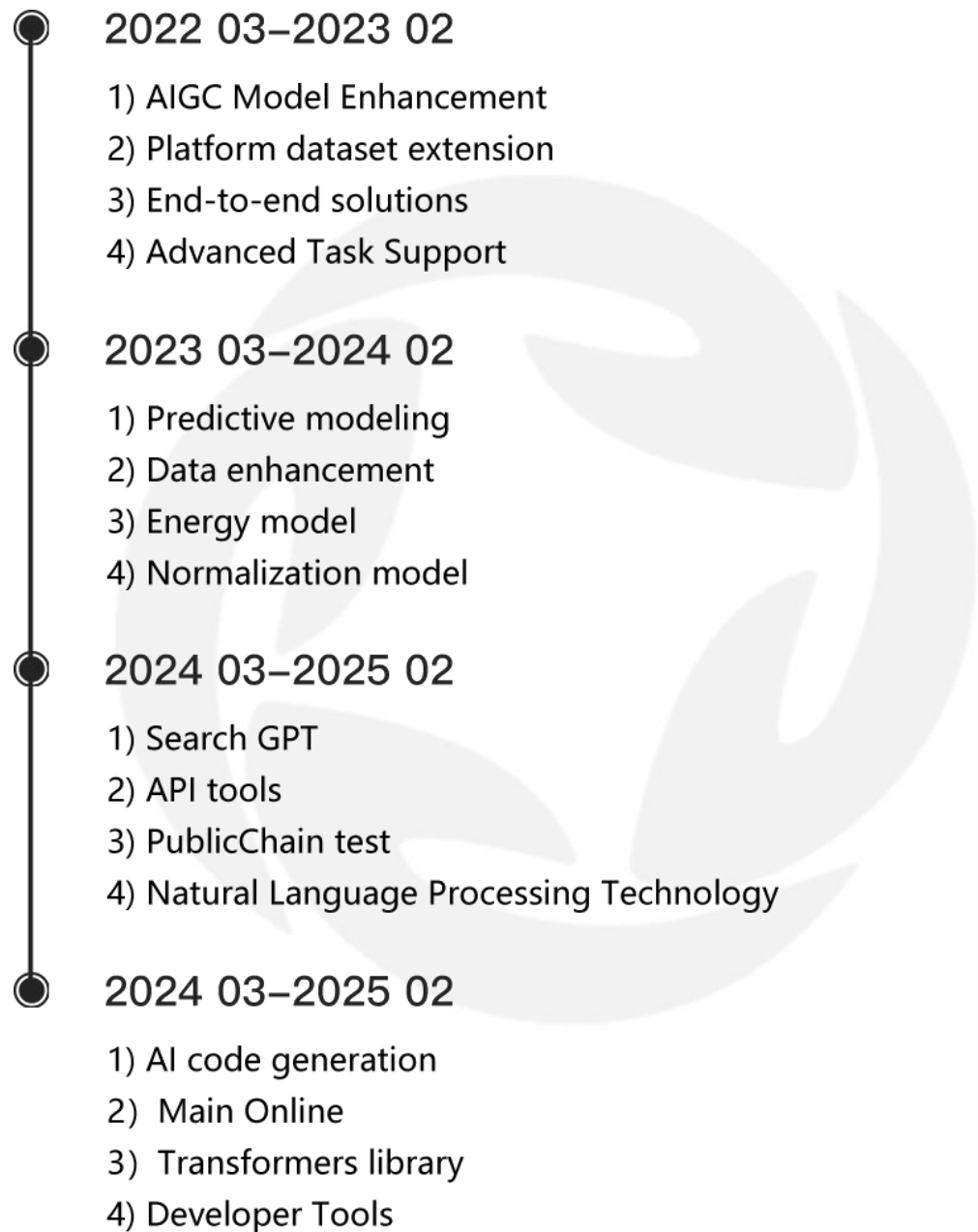
John Williams

Graduated from Stanford University with a degree in Engineering Management, John is the project manager of our team. He has extensive experience in team leadership and project management, having worked as a project manager for a large technology company, where he successfully led a number of complex AI projects.John specializes in planning project schedules, resource allocation, and risk management, and his coordination and communication skills enable projects to achieve their goals efficiently. With a deep understanding of the importance of teamwork and the ability to maintain positive team dynamics and cooperation, John's leadership talent and project management skills provide a solid foundation for successful team execution.

Johnson

Johnson holds a BFA in Visual Arts from the New York Academy of Art. Talented in creative design and user experience, Johnson has worked in a creative design studio, designing eye-catching visual identities and user interfaces for a variety of brands. Johnson has a knack for translating complex concepts into clean and creative designs, with an eye for detail and user emotion, which lends a distinctive aesthetic and user-friendly experience to a product. His design concepts are closely aligned with the team's technological innovations, adding more creativity and charm to the success of the project.

Search AI Roadmap

2022 03–2023 02

1) AIGC Model Enhancement
2) Platform dataset extension
3) End-to-end solutions
4) Advanced Task Support

2023 03–2024 02

1) Predictive modeling
2) Data enhancement
3) Energy model
4) Normalization model

2024 03–2025 02

1) Search GPT
2) API tools
3) PublicChain test
4) Natural Language Processing Technology

2024 03–2025 02

1) AI code generation
2) Main Online
3) Transformers library
4) Developer Tools

Reach A Verdict

As the Artificial Intelligence Produced Content (AIGC) space explodes and innovates, Search AI plays a key role as a leading AIGC solution provider. Its platform offers a robust model library, model fine–tuning and customization capabilities, and an innovative conversation generation toolkit, Transform Chat. through model sharing and community collaboration, developers can get feedback and suggestions from the community to foster innovation and progress.

Search AI's PublicChain serves as a decentralized blockchain network that provides the Search AI community with a secure and trusted framework for data collaboration and sharing. With blockchain technology and the Proof–of–Stake consensus mechanism, PublicChain ensures that the network is highly scalable and secure, providing equity and incentives to participants.

With the comprehensive solutions offered by the Search AI platform, developers can better utilize AIGC technologies and tools to create efficient, intelligent and creative applications.