Introduction

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Trusta.AI is devoted to leveraging revolutionary AI innovation breakthroughs to bring fundamental changes to the entire **AI + Crypto** ecosystem. We believe that by bringing "**more trust, less friction**" in transactions, we can create a smoother and more secure digital experience for human users and AI agents.

Trusta.AI's vision is to build a **Trusted Identity Network for Crypto-Intelligence (Crypto+AI).** In this ecosystem that encompasses both Human Intelligence and Artificial Intelligence, using Trusta Identity as the foundation, all data, reputation, and credit will be accumulated. Ultimately, we will establish a **universal credit infrastructure for all intelligences (human intelligence + artificial intelligence)**. But now, We believe it is time to decentralize Trusta.AI for adapting to the coming of AI era.

The Era of AI+Crypto

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In the current phase of AI development, two trending topics stand out:

1. **Exploration of Scaling Laws**: This area focuses on enhancing intelligence levels through larger models. The "scaling law," which observes that larger AI models tend to be more capable, has garnered significant attention. For instance, OpenAI's o1 model【1】↗ , released in September 2024, has reached PhD-level intelligence. Trained using reinforcement learning, the o1 model can generate extensive internal reasoning before responding to users. In tests, it achieved an impressive 83% on the qualifying exam for the International Mathematics Olympiad, showcasing its remarkable capabilities.

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2. **Development of Domain-Specific AI Agents**: Researchers are also working on creating AI agents that can address specific domain challenges, serving as valuable assistants to humans. These autonomous entities leverage AI to perceive their surroundings, make decisions, and take actions to achieve particular objectives. Various frameworks, such as LangGraph, CrewAI, and SWARM, facilitate developers in creating AI agents more easily. In the realm of cryptocurrency, ElizaOS【2】↗has emerged as a web3-friendly AI operating system, designed thoughtfully to connect AI technology with Web3 applications.

AI Identity Awakening

When pursuing super-intelligence and specialized AI agents, we often overlook a crucial distinction between AI and human intelligence: **identity recognition**.

As the author of this white paper, I am keenly aware of my multifaceted identity. I hold a PhD in machine learning and AI, I am a father to a spirited 13-year-old boy, and I am a co-founder of this project, driven by strong beliefs. All these surrounding social, family, and professional identities together fully define: **who is this human being**?

However, current AI lacks this kind of identity recognition. Instead, AI identities are artificially designated by humans. As shown on the left side of the figure, when using typical large models, prompts must include "assume you are an expert writer" to improve the model's writing performance. The right side illustrates that in the AI16Z ElisaOS framework, AI agents' characters, such as TRUMP, need to be manually specified in a JSON file. These artificial, fixed identity specifications should not be the final solution.

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Trusta.AI has recognized and addressed the issue of the lack of identity recognition in AI. As the largest identity infrastructure in the crypto world, Trusta.AI believes that a significant breakthrough in the AI era will come from the awakening of AI identity:

> **AI Identity Awakening**: Every intelligent agent (including Human Intelligence and Artificial Intelligence) will develop a sense of identity emerging from self-recognition and community recognition. Web3 economic activities (such as transactions, lending, and financing) built on the Trusted AI + Crypto Identity Network will be more efficient and secure.

Our Work on Identity

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Trusta.AI has achieved significant milestones as the largest Identity and On-Chain Reputation Protocol, featuring three main products: Trustgo, Trustscan and Trusta Agent.

1. Trustgo introduces the MEDIA score, a Web3 Account Assessment Protocol that provides an On-chain Value Score, while Trustscan employs AI and knowledge graphs to generate a Sybil score for proof of humanity(POH), effectively preventing Sybil attacks. Trusta Agent is to build attestations for Proof of Humanity, Test of Humanity and Proof of AI Agent.
2. Trusta.AI has provided exclusive airdrop consulting and Sybil prevention for notable projects such as Celestia, Starknet, Manta, Sonic and Plume. The platform has partnered with leading services such as Binance for monthly monitoring, Galxe for Web3 scoring, and Gitcoin Passport. It stands out as the top POH attestation provider on LINEA.



3. Trusta.AI has issued over 2.5 million on-chain attestations claimed by more than 1.5 million users, making it the top provider on both Linea and BSC, and ranking third on Scroll and second on TON Chain. In total, there are over 3 million users, which includes 1.8 million wallet addresses, 700,000 web accounts, and 500,000 Telegram users. Additionally, the monthly active user count ranges between 300,000 and 500,000. Trusta.AI also has over 700,000 followers on Twitter.

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4. Trusta's team is comprised of leading AI and security experts from the Fintech and Web3 sectors, including co-founders who have previously held significant roles at Alipay. The team has also been recognized as champions of the Gitcoin and TON hackathons for their innovative contributions.

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Organization of this Paper

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This white paper is organized as follows. First, we outline the important problems regarding identity in building the AI+Crypto ecosystem. We break it down into four sub-problems, which we will discuss and address in the subsequent chapters. Specifically, we present several use cases based on the trusted identity layer for crypto intelligence. Moreover, we announce our tokenomics, which will advance the decentralization of the project process.

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Problem Statement

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