



RESEARCH

AI x Blockchain Disruption:

Unveiling Perfect Synergy Use Cases

Despite the uneven attention AI and blockchain have received over the past few months, their disruptive power is undoubtedly comparable.

There is no competition between
these two technologies.
Quite the opposite is true.

**What if we combined AI
and blockchain to
leverage each other's
transformational powers?**

The Onchain research team analyzed **107 AI x blockchain projects** and interviewed over **450 founders and experts** to discover how the synergies between AI x blockchain work.

What are the key takeaways?

High-potential AI x blockchain synergies

Question: Which synergy (from the ones you recognize) do you perceive as the one with the highest potential for the future?

Total responses: 437

Enhancing the trust in AI data thanks to decentralization



Improving the security of smart contracts



Optimizing crypto trading thanks to machine learning



Optimizing blockchain operations thanks to AI algorithms



Improving the transparency of AI thanks to blockchain



Providing decentralized GPU computational resources for AI algorithms



Democratizing access to data for AI purposes and further research



Improving blockchain data management thanks to AI



The Onchain team found that the adoption of AI and blockchain convergence in companies is still **mediocre** at best.



Have you or your company implemented any solutions based on AI x blockchain convergence?

Total responses: 456

Most survey respondents work in technological industries, however only 20.2% have already implemented combined AI & blockchain solutions.

The majority of implemented solutions are focused on AI algorithms that increase the security and efficiency of blockchains.

However, **23.9% of companies use the distributed ledger to enhance the trust in AI algorithms**, either on their employees' or clients' side.

See the next table.

The most popular implementations of AI x blockchain synergies in companies

Question: Which synergy (or synergies) did your company implement?

Total responses: 92

Improving the security of smart contracts

32.6%

30 responses

Optimizing blockchain operations thanks to AI algorithms

25%

23 responses

Enhancing the trust in AI data thanks to decentralization

23.9%

22 responses

Optimizing blockchain data management thanks to AI

22.8%

21 responses

Optimizing crypto trading thanks to machine learning

20.7%

19 responses

Providing decentralized GPU computational resources for AI algorithms

18.5%

17 responses

Democratizing access to data for AI purposes and further research

16.3%

15 responses

Improving the transparency of AI thanks to blockchain

16.3%

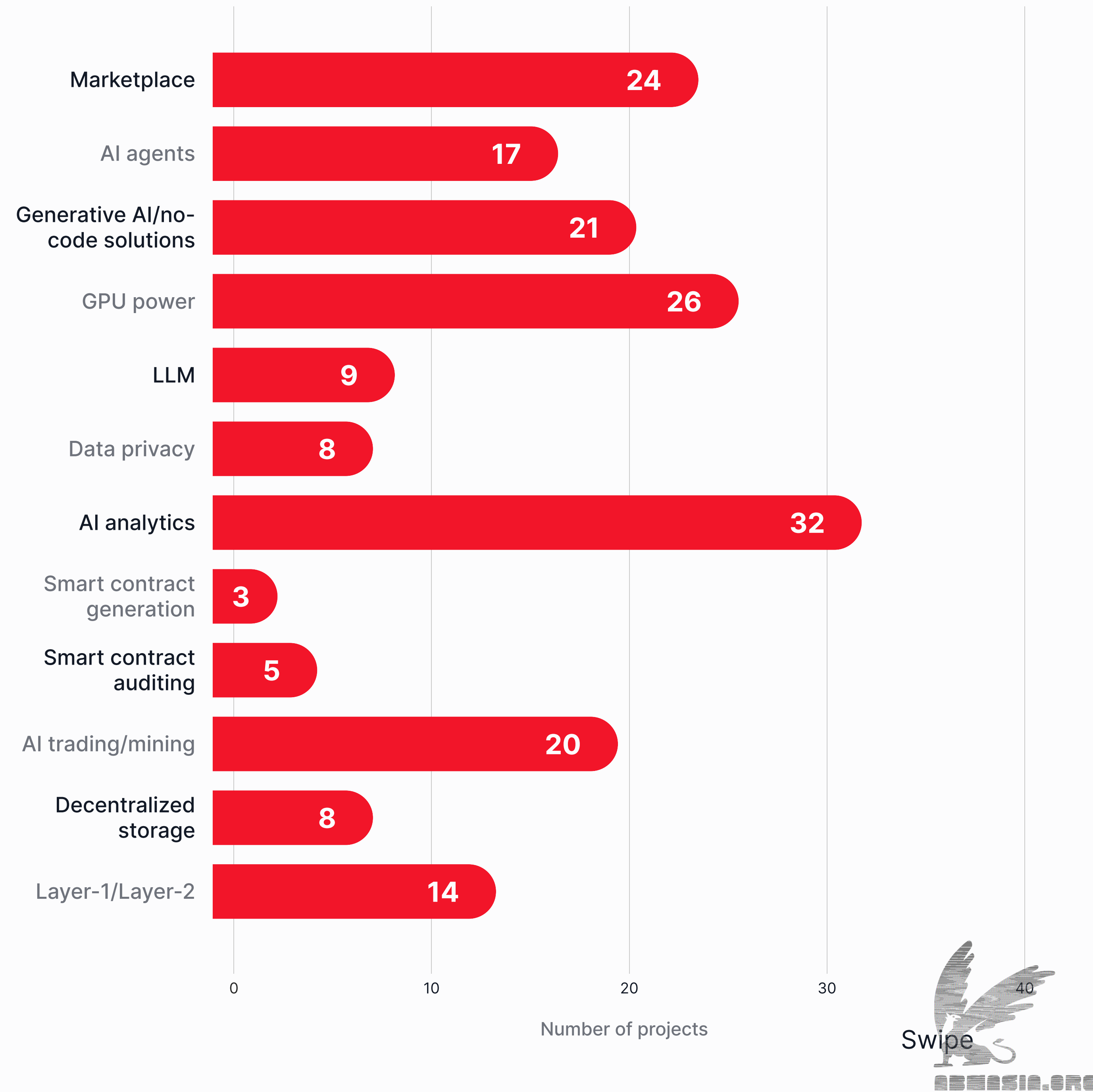
15 responses

Not surprisingly, **almost 50%** implement an AI & blockchain synergy to improve cost efficiency, **45%** seek to optimize internal processes, and **37%** aim to improve their value proposition.

These four application sectors leverage the AI x blockchain alliance the most:

- Generative AI
- Battling fake news
- Micropayments
- Smart contract auditing

Utilities of Web3 AI projects



Learn more about the current state of the **AI and blockchain market** in the Onchain research report.

Check it out