Senmon - A Post Quantum Decentralized Storage System

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Senmon is a post-quantum decentralized storage platform designed to counter emerging quantum computing threats. By integrating blockchain technology with post-quantum cryptographic algorithms—Crystal Kyber for key exchange and Crystal Dilithium for digital signatures—alongside AES-256 encryption, Senmon ensures secure data storage, authenticity, and long-term reliability. Its distributed architecture eliminates single points of failure by dispersing encrypted data across multiple blockchain nodes using sharding and redundancy techniques. Smart contracts enforce data access policies, manage encryption keys, and automate access revocation, while blockchain's immutable ledger maintains tamper-proof audit trails. This ensures compliance and transparency for industries requiring highly secure, decentralized storage, such as finance, healthcare, and legal sectors. By combining post-quantum cryptography, blockchain consensus, and smart contract automation, Senmon provides a scalable, future-proof storage solution against evolving cyber-security threats.

ISBN:978-81-985448-6-5