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(57) Abstract :

Embodiments of the present disclosure disclose a system 100 for data sharing in decentralized storage systems via blockchain is provided. The system includes a decentralized database 112 linked to multiple user devices 104. The decentralized database 112 is communicatively coupled with an AI engine 108, which may include a processor 202 configured to receive a registration request from at least one user 102. Additionally, the processor 202 delivers a transaction ID associated with a secret key, contract address, contract application binary interface (ABI), and contact source code. Data owner select keywords from a shared file, which are then encrypted and uploaded to an IPFS. Furthermore, the processor 202 executing the contract generates a search token and retrieves relevant transaction data.

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