Thota Anitha

Securing Data Over Network with Blockchain and AI

AI,Blockchain,Networks

In order to address the issue of data abuse and enable trustworthy data management in an environment lacking inherent trust, we propose an innovative networking paradigm called SecNet. SecNet focuses on secure data storage, sharing, and computation rather than mere communication, leveraging the combined potential of AI and blockchain. Througlh the utilization of blockchain technologies, SecNet ensures data ownership guarantees, while also incorporating an AI-based secure computing platform and a blockchain-based incentive mechanism. These elements provide a framework and incentives for data integration and the augmentation of AI

capabilities, ultimately leading to enhanced network security.In our research, we specifically explore the application of SecNet in medical care systems, outlining typical use scenarios and presenting alternative approaches to leveraging SecNet's

storage function. Additionally, we evaluate the impact of SecNet on network vulnerability in countering Distributed Denial-of-Service (DDoS) attacks, and analyze the incentive aspect of encouraging users to share security rules, thereby contributing to a more secure network.

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