Deep Learning Model on Blockchain for Secured Mobile Communication

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Abstract:
The Internet of Things (IoT) is an open network model that aims to build and link the interactions between the devices and links. Conventional blockchain model aimed at increase the scalability but often it is limited by its capacity and performance. The deep learning algorithms aims to determine the parameters of the blockchain that finds the optimal value required to obtain an increased scalability without any limitations in its performance. In this paper, a deep learning model is integrated with the blockchain to improve the process of communication in a secured way. The deep learning model optimizes the necessary security parameters required to transfer the data in a secured way. The experimental validation shows an increased scalable task allocation than its predecessors.

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Contents

A blockchain is a distributed digital ledger that may be used to record transactions without the possibility of fraud or manipulation being introduced into the system. Blockchains are becoming increasingly popular as an alternative to traditional ledgers. A blockchain ledger is protected from fraudulent behavior since each transaction in a blockchain needs to be signed by a valid participant. A timestamp, a list of transactions that have been encrypted, and a digital signature of the transactions are all stored in each individual block that makes up the blockchain.