

A Project Abstract

on

**DETECTION OF COUNTERFEIT PRODUCTS
USING BLOCKCHAIN**

Submitted in partial fulfillment of the requirements

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in

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ABSTRACT

One of the biggest challenges today's retail market is the counterfeiting of products. Counterfeiting of products are just low-quality copies of some genuine brand. Many different methods have been adopted from time to time to combat the counterfeiting of the products such as artificial intelligence, machine learning and QR code-base system. But these methods have their disadvantages such as QR code can copy from a genuine product to a fake product, artificial intelligence and machine learning need high computational power to do operations. In this project, we have tried to improve the detection of fake products with the help of blockchain technology. The proposed system can store the data of the products and will generate unique and product specific code of that product and will save it as a block by using hash value. It will collect the unique code from the customer which he can get by scanning the QR code given on the product then the system will check for the code in the blockchain database i.e., Ethereum. If the code matches, it will give a receipt of the products to the customers, otherwise it will notify the customer that the product is not legit. Blockchain helps us to store the supply chain of products as a blockchain-based system makes a decentralized system and one of the main advantages of blockchain is that if the data is recorded in the system then nobody can change it makes our data more secure and protected from third parties.

Keywords: *Counterfeit(Fake) product, QR code, Blockchain, Transaction history, Hash value, Ethereum .*

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