SYNOPSIS OF THE PROJECT

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Shared folder/git repository details	https://github.com/aleenakuriakose11/Main_project
Project Title	**AUTO SCRUPLE**

Description of Project:

Scrapping of cars in India is not an organized process like the sale of used cars. Transactions related to vehicles mainly involve buying and selling. However, tracking these transactions can be a challenging task. Even though there exist some solutions using centralized systems, they may have problems with transparency, trust, and access control. Also, scrap dealers might deceive naive customers by fixing unfair prices for the cars given for scrapping. Therefore, in this paper, we provide an integrated blockchain and machine learning-based solution for automating the transactions related to the scrapping of cars. The major parties involved in the transactions are the Regional Transport Officer (RTO), car owners, and scrap dealers, and their communication is facilitated with the help of smart contracts. Along with this, damage detection followed by price prediction of the car to be scrapped is carried out which helps the car owner realize the actual worth of his/ her car without being deceived. We propose an Extreme gradient boosting (Xgboost) model for the same. The obtained results show that Xgboost regressor achieves high-performance gains, having an accuracy of 89.96 percent. Finally, a scrapping certificate is generated and issued to the owners of the scrapped cars, with which they can avail discount while buying a new car thereby attracting more people to get their old and pollution-causing cars scrapped.

Front end and Backend Tools	

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