PROJECT TITLE : CAR RESALE VALUE PREDICTION

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# ABSTRACT :

Car resale value prediction system is made with the purpose of predicting the correct valuation of used cars that helps users to sell the car remotely with perfect valuation and without human intervention in the process to eliminate biased valuation. Used car resale market in India was marked at 24.2 billion US dollars in 2019. Due to the huge requirement of used cars and lack of experts who can determine the correct valuation, there is an utmost need of bridging this gap between sellers and buyers. This project focuses on building a system that can accurately predict a resale value of the car based on minimal features like kms driven, year of purchase etc. without manual or human interference and hence it remains unbiased.

# LITERATURE SURVEY

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| Book/journal | Author’s name | Inference |
| Predicting the Price of Used Cars using Machine Learning Techniques | Sameerchand Pudaruth | In this paper, we investigate the application of supervised machine learning techniques to predict the price of used cars in Mauritius. The predictions are based on historical data collected from daily newspapers.  Different techniques like multiple linear regression analysis, k-nearest neighbour’s, naive bayes and decision trees have been used to make the  predictions. |
| Car Price Prediction Using Machine Learning | Enis gegic, Becir Isakovic, Dino Keco, Zerina Masetic, Jasmin Kevric | In this paper, we applied different methods and techniques in order to achieve higher precision of the used car price prediction. This paper is organized in the following manner: Section II contains related work in the field of price prediction of used cars. In section III, the research methodology of our study is explain. Section IV  elaborates various machine learning. |
| Price Evaluation Model In Second Hand Car System Based On BP Neural Network Theory | Ning sun, Hongxi Bai, Yuxia Geng, Huizhu Sh | This paper presents a system that has been implemented to predict a fair price for any pre- owned car. The system works well to anticipate the price of used cars for the Mumbai region.  Ensemble techniques in  machine learning namely Random Forest |

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|  |  | Algorithm, extreme Gradient Boost |
| Prediction of Prices for Used Car by using Regression Models | Nitis Monburinon, Prajak Chertchom, Thongchai Kaewkiriya, Suwat Rungpheung, Sabir Buya, Pitchayakit Boonpou | In this paper, we look at how supervised machine learning techniques can be used to forecast car prices in India. Data from the online marketplace quikr was used to make the  predictions. |
| Prediction car prices using | Doan Van Thai, Luong | In this paper, we describe |
| qualify qualitative data | Ngoc Son, Pham Vu Tien, | a scalable end-toend tree |
| and knowledge-based | Nguyen Nhat Anh, | boosting system called |
| system | Nguyen Thi Ngoc Anh | XGBoost, which is used |
|  |  | widely by data scientists |
|  |  | to achieve state-of-the-art |
|  |  | results on many machine |
|  |  | learning challenges. We |
|  |  | propose a novel sparsity- |
|  |  | aware algorithm for sparse |
|  |  | data and weighted quantile |
|  |  | sketch for approximate |
|  |  | tree learning. |