# LITERATURE SURVEY

Car Resale Value Predictor

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| SNO | TITLE OF THE PAPER | NAME OF  THE JOURNAL | AUTHOR | YEAR  OF  PUBLISHING | ACHIEVEMENTS | DRAWBACKS |
| 1. | Used Car Price Prediction | IRJET | Praful Rane, Deep Pandya, Dhawal Kotak. | 2021 | The system which is been proposed helps in determining the accurate price of used cars.It combines three different Machine Learning algorithms,which are Lasso regression,Linear regression and Ridge regression. | For better performance deep learning network structures must be designed. Rather than training on whole dataset,clusters of data can be used for training.Also large historical data can be used for improving the accuracy. |
| 2. | Vehicle Resale Price prediction using Machine Learning | Juni Khyat | B.Lavanya , Sk.Reshma , N.Nikitha , M.Namitha,  L.Kanya Kumari,S.Kishore Babu | 2021 | Four distinctive AI procedures have been utilised which helps in figuring the cost of pre owned vehicles.This model gives the anticipated cost of a pre owned vehicle on the basis of past shopper information. | Model should be trained on more datasets to improve the accuracy.Also the information cleaning cycle needs improvement. |
| 3 | Predicting the Price of Used Cars using Machine Learning Techniques | Research Gate | Sameerchand Pudaruth | 2014 | The mean error with linear regression was about  Rs51, 000 while for kNN it was about Rs27, 000 for Nissan cars and about Rs45, 000  for Toyota cars. J48 and NaiveBayes accuracy dangled between 60-70% for different  combinations of parameters | The main weakness of decision trees and naïve bayes is  their inability to handle output classes with numeric values. Hence, the price attribute  had to be classified into classes which contained a range of prices but this evidently  introduced further grounds for inaccuracies. |
| 4 | Car Resale Value Prediction System | IRJET | Dhwani Nimbark, Akshat Patel, Sejal Thakkar | 2021 | 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. | Once more data is collected and various different cars are included in the system,the system not [performs well. deep learning-based ANN or LSTM would perform better. |
| 5 | Predicting Used Car Prices with Heuristic Algorithms and Creating a New Dataset. | ISSN | Mehmet BILEN | 2021 | A new predictable dataset was created that can be used in training heuristic algorithms. The most important headings that affect second-hand car prices are included in this dataset, which is formed by the compilation of used vehicle sales advertisements on the Internet, in line with expert opinions. | It was seen that the data set could be predicted successfully. But, changes in car prices in short periods under volatile market conditions will cause these data to become outdated. |
| 6 | Predicting the Price of Pre-Owned Cars Using Machine Learning and Data Science | IJRASET | G. Kalpana , Dr. A. Kanaka Durga, T. Anoop Reddy , Dr. G. Karuna | 2022 | This project is more helpful for all e-commerce companies who act as mediators for selling and buying pre-owned cars. The customer can easily be convinced in taking a decision to buy a pre-owned car out of various car models with various features | More attributes are missing like Resale history, Lic ,Accidents history,image etc in the data set which makes clear and ccurate analysis. |
| 7 | Used Cars Price Prediction using Supervised Learning Techniques | LJEAT | 2019 | Pattabiraman Venkatasubbu, Mukkesh Ganesh | The prediction error rate of all the models was well under the accepted 5% of error.They will also be comparing the prediction accuracy of these models to determine the optimal one | Even though for some seeds the regression tree has better accuracy, its error rates are higher for the rest. To get even more accurate models, we can also choose more advanced machine learning algorithms such as random forests, an ensemble learning algorithm which creates multiple decision/regression trees, which brings down overfitting massively or Boosting. |