

Car resale value prediction using Machine learning algorithms

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Abstract:

To train a model for predicting the price of used cars we applied machine learning algorithm technique.

Programming and environment:

Programming language:

- Python

Environment:

- Jupyternotebook
- Numpy
- Pandas
- Matplotlib
- Googlecollab

Literature survey:

Paper title/Author	Technique/ Algorithm	Merits	Parameter	Proposed System
Car value prediction /Jashmin kaveric,Zerina Masetic	Artificial neural networks,Support vector machine	Usefull for the customer to buy a car in correct cost	Classified the price in different ranges	Stored in pickle file format.
Price prediction for pre owned cars/Ning sun	Extreme gradient boosting/Grid search algorithm	Parallelcomputing is used to reduce training over head	Improve the data prewdivtion and rate forecasting	To extract the Historical sales and production of data feautures.
Car resale value prediction /Sameerchand pudaruth	Supervised machine larning/ Decision tree algorithm	High Collinearity between independent variable,so ridge Regressuion is used	Low accuracy level	It is availabe in Graphical user Interface
Used car price prediction/Pattabiraman Vengatesh subbu,Mugesh ganesh	Supervised machine learning/Lasso regression algorithm	Prediction error rate of model is accepted 5% of error.	Better accuracy,Its error rates arer higher for the rest.	To get more more accurate model,Which brings down over fitting massively
Car price prediction/Enis gegic,becir isakovic	Artificial neural network/Rand om forest Algorithm	Final prediction model was integrated into java application	87.37 of accuracy level is Obtained	Extend the rest data with eBay and OLX used cars dataset and validate the proposed aproach