

S. NO	TITLE	AUTHOR	ABSTRACT	DRAWBACKS
1.	Car resale price prediction	Ketan Agrahari , Ayush Chaubey , Mamoor Khan , Manas Srivastava	The demand for used cars has increased significantly in the past decade and it is prognosticated that with Covid-19 outbreak this requirement will augment considerably. Hence to enhance the reliability, with the expansion of the used car market, a model that can forecast the current market price of a used automobile on the basis of a variety of criteria. This analysis can be used to study the trends in the industry, offer better insight into the market, and aid the community in its smooth workflow. The aim of this research paper is to predict the car price as per the data set (previous consumer data like engine capacity, distance traveled, year of manufacture, etc.). The result of these algorithms will be analyzed and based on the efficiency and accuracy of these algorithms, the best one of them can be used for the said purpose. Index Terms - Machine Learning, Linear Regression, Lasso Regression, Correlation	Regression models work with datasets containing numeric values and not with categorical variables. There are ways to deal with categorical variables though by creating multiple new variables with a yes/no value. Correlation can't look at the presence or effect of other variables outside of the two being explored. Importantly, correlation doesn't tell us about cause and effect. Correlation also cannot accurately describe curvilinear relationships.
2.	Car resale price prediction	Abdulla AlShared	Due to the unprecedented number of cars being purchased and sold, used car price prediction is a topic of high interest. Because of the affordability of used cars in developing countries, people tend more purchase used cars. A primary objective of this project is to estimate used car prices by using attributes that are highly correlated with a label (Price). To accomplish this, data mining technology has been employed. Null, redundant, and missing values were removed from the dataset during pre-processing. In this supervised learning study, three regressors (Random Forest Regressor, Linear Regression, and Bagging Regressor) have been trained, tested, and compared against a benchmark dataset. Among all the experiments, the Random Forest Regressor had the highest score at 95%, followed by 0.025 MSE, 0.0008 MAE, and 0.0378 RMSE respectively. In addition to Random Forest Regression, Bagging Regression performed well with an 88% score, followed by Linear Regression having an 85% mark. A train-test split of	Not the error whose minimisation yields as solution the mean. hard to mathematically analyse, hard to numerically optimise. If we do in fact care about the outlier predictions of our model, then the MAE won't be as effective. The large errors coming from the outliers end up being weighted the exact same as lower errors. This might results in our model being great most of the time, but making a few very poor predictions every so often.

			80/20 with 40 random states was used in all experiments. The researchers of this project anticipate that in the near future, the most sophisticated algorithm is used for making predictions, and then the model will be integrated into a mobile app or web page for the general public to use. Keywords: Car Price Prediction, supervised learning, linear regression, bagging regression, classification.	
3.	Car resale price prediction	K. Samruddhi , Dr. R.Ashok Kumar	Predicting the price of used cars is one of the significant and interesting areas of analysis. As an increased demand in the second-hand car market, the business for both buyers and sellers has increased. For reliable and accurate prediction it requires expert knowledge about the field because of the price of the cars dependent on many important factors. This paper proposed a supervised machine learning model using KNN (K Nearest Neighbor) regression algorithm to analyze the price of used cars. We trained our model with data of used cars which is collected from the Kaggle website. Through this experiment, the data was examined with different trained and test ratios. As a result, the accuracy of the proposed model is around 85% and is fitted as the optimized model. Keywords: K Nearest Neighbor, Prediction, Machine Learning, Used Cars Accuracy, Preprocessing, Regression, Cross-validation, K-Fold.	As your training data increases, the speed at which calculations are made rapidly decrease. When majority of the data the model is being trained on represents 1 label then that label will have a high likelihood of being predicted. It creates Poor performance on imbalanced data . If the K value is chosen incorrectly, the model will be under or over fitted to the data
4.	Car resale price prediction	Pattabiraman Venkatasubbu, Mukkesh Ganesh	The production of cars has been steadily increasing in the past decade, with over 70 million passenger cars being produced in the year 2016. This has given rise to the used car market, which on its own has become a booming industry. The recent advent of online portals has facilitated the need for both the customer and the seller to be better informed about the trends and patterns that determine the value of a used car in the market. Using Machine Learning Algorithms such as Lasso	Regression models cannot work properly if the input data has errors (that is poor quality data). If the data preprocessing is not performed well to remove missing values or redundant data or outliers or imbalanced data distribution, the validity of the regression

			<p>Regression, Multiple Regression and Regression trees, we will try to develop a statistical model which will be able to predict the price of a used car, based on previous consumer data and a given set of features. We will also be comparing the prediction accuracy of these models to determine the optimal one. Keywords: ANOVA, Lasso Regression, Regression Tree, Tukey's Test I</p>	<p>model suffers. As the number of variables increases the reliability of the regression models decreases. The regression models work better if you have a small number of variables.</p>
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