**Literature Survey on Car Resale Value Prediction** :

The first paper is Predicting the price of Used Car Using Machine Learning Techniques.In this paper, they 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 neighbours, naïve bayes and decision trees have been used to make the predictions. The Second paper is Car Price Prediction Using Machine Learning Techniques. Considerable number of distinct attributes are examined for the reliable and accurate prediction. To build a model for predicting the price of used cars in Bosnia and Herzegovina, they have applied three machine learning techniques (Artificial Neural Network, Support Vector Machine and Random Forest). The Third paper is Price Evaluation model in second hand car system based on BP neural networks. In this paper, the price evaluation model based on big data analysis is proposed, which takes advantage of widely circulated vehicle data and a large number of vehicle transaction data to analyze the price data for each type of vehicles by using the optimized BP neural network algorithm. It aims to establish a second-hand car price evaluation model to get the price that best matches the car.

**Information Gathering** :

The system is defined in the python language that predicts the amount of resale value based on the given information. The system works on the trained dataset of the machine learning program that evaluates the precise value of the car. User can enter details only of fields like purchase price of car, kilometers driven, fuel of car, year of purchase. 2. OBJECTIVE 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. Table -1: Sample Table format Algorithms implemented Model Algorithm RMSE Support Vector Regression 56000 Logistic Regression 86000 Random Forest Regression 78000 Gradient Boosting Regression 42000 Due to limited data, system only takes into account limited features for predicting the resale value of the car. Since this is an online system, current system does not take into account any physical damage to the car body or engine while predicting the resale value. The new system developed by us consists of two parts - Data gathering and Prediction using Machine Learning based algorithms. We have used web scraping libraries to gather data from the webpages of cars24 website. The script runs and captures data from the HTML div mentioned in the code via URL. URL should be entered by the user. For now, we have captured data by entering URL for Swift Dzire cars for 5 cities. The second part is the web-based car resale value prediction. We have trained a boosting algorithm-based ML model using data from the previous step after preprocessing and cleaning. The trained model is used for prediction. The front-end form asks users to fill values which are required for the ML model to make prediction IE- city, kms driven, year of purchase and fuel type.