CAR RESALE VALUE PREDICTION

LITERATURE SURVEY

In First paper, Artificial Neural Network, Random Forest, Support Vector Machine algorithms were used. The data is collected from a local web portal for selling and buying cars autopijaca.ba. Considered many parameters which represents the car features. In order to clean these samples, PHP script that is reading scraped data from database, perform cleaning and saves the cleaned samples into CSV file. The whole data set collected in this research has been split into training (90%) and testing (10%) subsets

Random Forest algorithm was applied on the whole dataset, to test how accurately the classifier can categorize samples into cheap, moderate and expensive car classes. On cheap dataset SVM and ANN classification algorithms were used.

Applying single machine algorithm on the data set accuracy was less than 50%. Therefore, the ensemble of multiple machine learning algorithms has been proposed and this combination of ML methods gains accuracy of 92.38%.

In Second paper, supervised machine learning technique was used to predict the actual price of the car with 98% of prediction precision. Research aims to develop a good regression model to offer accurate prediction of car price. In this paper, old car price data were considered as input. Car price is considered as the dependent variable while other attributes as the independent variables.

In Third paper, multiple linear regression analysis, k-nearest neighbours, naïve bayes and decision trees have been used to make the predictions. Data was collected from <petites announces> found in daily newspapers such as L'Express [8] and Le Defi [9]. The car which has no price in the data set was removed. The Pearson correlation coefficient (r) was computed between different pairs of features