ABSTRACT

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MACHINE LEARNING IMPLEMENTATION USING RANDOM FOREST REGRESSION ALGORITHM TO PREDICT USED CAR PRICE.
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(xv+ 54 Pages + Attachments)

When someone wants to sell his used car there is a problem that is encountered, one of which is the lack of information regarding the ideal price for his car. One of the methods in predicting the price of an item is Machine Learning (ML) which aims to build an algorithm that can analyze a data that is owned. the random forest algorithm which is called one of the best Machine Learning algorithms. Random Forest is a collection of decision trees that are usually used for regression and classification problems with large data sets. In this study, random forest regression was chosen to predict used car prices. The dataset used is Toyota.csv obtained from website https://www.kaggle.com/datasets/adityadesai13/used-car-dataset-ford-and-mercedes. The stages of the program are importing libraries and datasets, followed by data exploration and data restructuring, then encoding categorical data and also correlation matrices, then doing data splitting, building models using random forest regression, looking for parameters and then creating the final model. The last part is to enter the specifications of the used car and then a number or value appears as a result of predicting the price of the used car.

Bibliography (2017 – 2019)