

ABSTRACT

The use of private vehicles during the Covid-19 pandemic has increased because private vehicles, especially cars, are considered the safest mode of transportation to maintain distance and prevent Covid-19 transmission, resulting in an increase in sales of used cars on several buying and selling platforms. However, the diversity of used car prices between platforms is a problem for some people, therefore a system that can predict used car prices is needed to be a reference for used car market prices. In this study the author will use the random forest regressor algorithm as a machine learning algorithm to predict the price of a used car with a dataset from the AtapData website. The reason for choosing the random forest regressor algorithm is because the random forest regressor algorithm is able to process large data sizes and data with categorical and numerical data types. The evaluation method used in this study is Root Mean Absolute Error which produces a value of 0.5561292546399347 for validation data and 0.566383259489813 for testing data, while for evaluation with Mean Absolute Error, it produces a value of 0.4520833784723279 for validation data and 0.4757683915203774 for testing data.

Keywords: random forest regressor, machine learning, root mean square error, means absolute error.