# Steps Involved

* Converted 'PurchDate' from string format to datetime.
* Eliminated columns that do not contribute to the analysis or model, such as auto-generated index columns or unique identifiers.
* Removed Na’s.
* Created a new feature that might indicate potential fakes through unusual price variations.
* Created training and test set from the dataset.
* Processed numerical and categorical data separately and transformed and preprocessed them.
* Applied a relevant model.
* Created predictions on test data and computed performance.

# Improvements with more time

* Implement more comprehensive data validation steps post-cleanup to automatically verify that no essential data has been mistakenly removed and that the dataset conforms to expected formats and value ranges.
* Incorporate a system to dynamically handle data types based on the content of each column.
* Evaluating whether the chosen model and features adequately address the problem and consider experimenting with different models like Support Vector Machine or Logistic Regression or feature sets if performance is suboptimal.