**Datium Data Science Test**

The goal of this exercise is to predict vehicle sale prices (*Sold\_Amount*). Prepare a report documenting your thought process in building out the prediction model. The process should display some of the following considerations:

* Data understanding including highlighting errors and concerns with the data.
* Features to select and/or engineer. Take note that you cannot use the following fields: *AvgWholesale, AvgRetail, GoodWholesale, GoodRetail, TradeMin, TradeMax, PrivateMax*
* Experimentation with various feature encoding and modeling techniques.
* Different ways of evaluating the performance of the model and diagnosing the model for areas where it may be underperforming.
* A class for training the model
* Logging/tracking of metrics from the experiments that you run

You can use Jupyter Notebooks for the report, but feel free to experiment with different Python libraries apart from the generic Scikit-learn and scientific libraries. For the sake of managing your experiments, feel free to play with tools like MLFlow or other tracking services.

Please place all code and logs in a .git repository with README files for executing the code or any demo if necessary.

Train Dataset: <https://drive.google.com/file/d/17p5l1Zy0PgfSplkTmf82J9K7XQZcTKXa/view?usp=sharing>   
Test Dataset: <https://drive.google.com/file/d/1_qQN9I1p4-jaeJg4tpgMlZHBLg4GxBRV/view?usp=sharing>