**Machine Learning Mockup**

We will be diving into a large dataset to perform predictive analysis that determines whether a future delivery will be late and also what features most impact the time to ship.

Given our dataset and problem, it has been determined that we should use a supervised learning model with labels of “late shipment” and “shipment on time”. Next, we will test and train a variety of machine learning models to determine which one performs the best based on its accuracy score, precision and sensitivity. After determining which model works best, we will attempt to reduce the features to combat overfitting. Mathematical calculations will be used to gauge how well the new data performs in our chosen model and the impact of each feature will be reported with recommendations of what should be done to combat the late deliveries.