

VEHICLE PREDICTION MODEL

MLM Final Project
by Hans Walter

CONTEXT

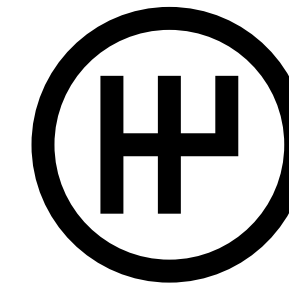
Year



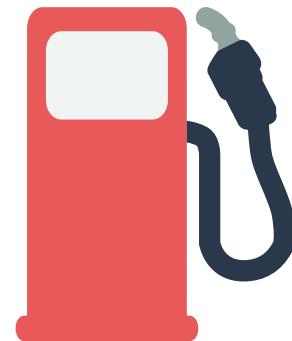
Mileage



Transmission



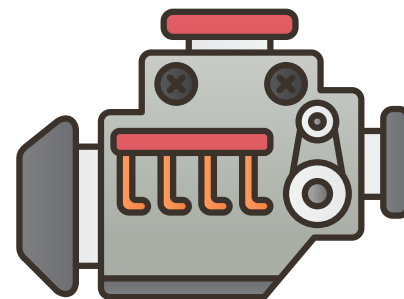
FuelType



Tax



MPG



EngineSize

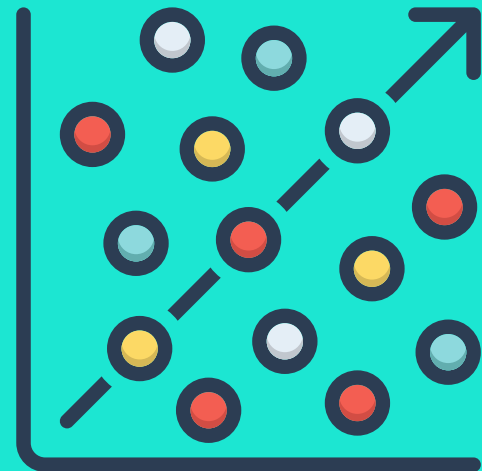


Vehicle Manufacturer

Models



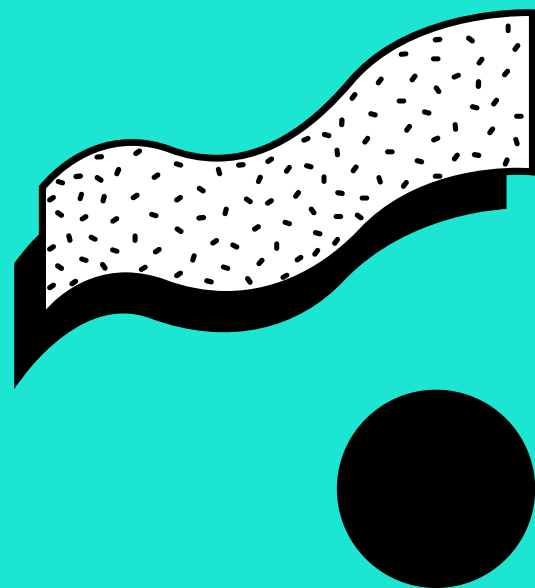
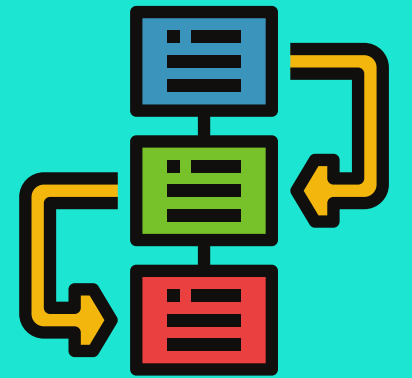
Linear Regression



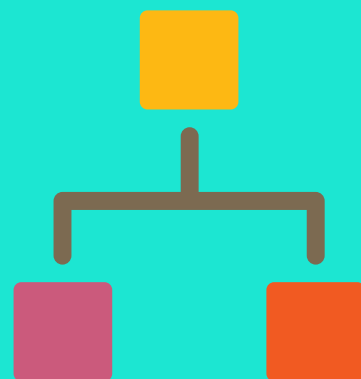
Decision Tree



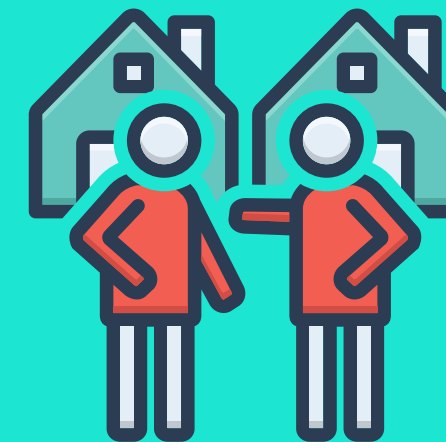
Gradient Boosting



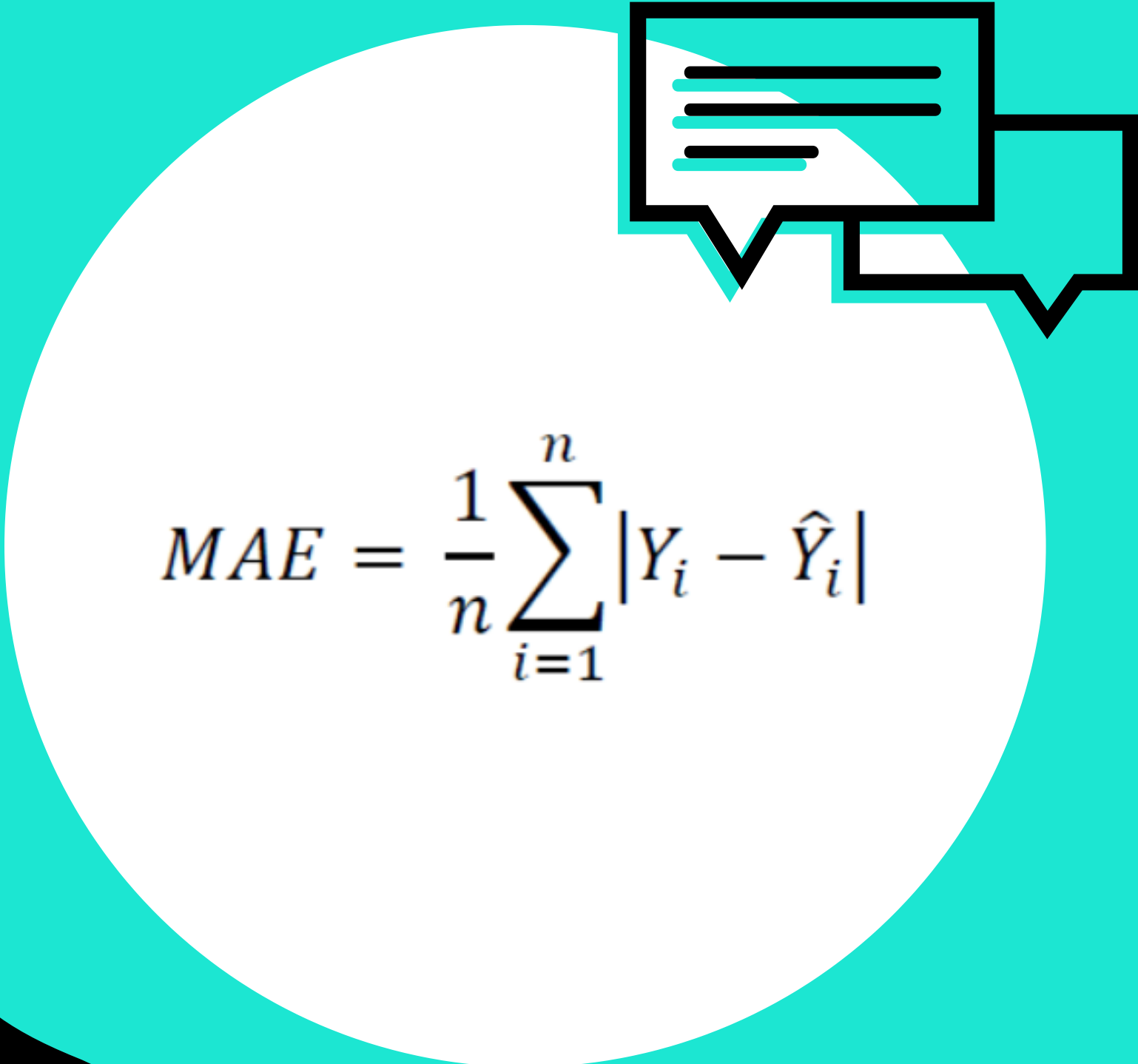
Adaboost Regression



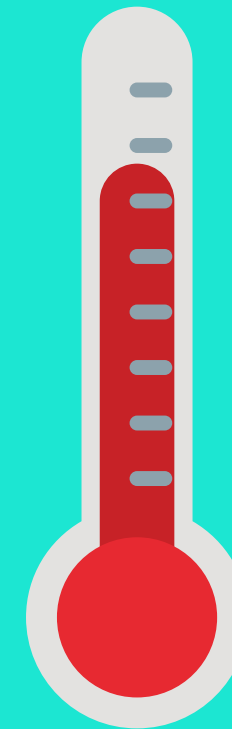
KNN Neighbours



CRITERIA


$$MAE = \frac{1}{n} \sum_{i=1}^n |Y_i - \hat{Y}_i|$$

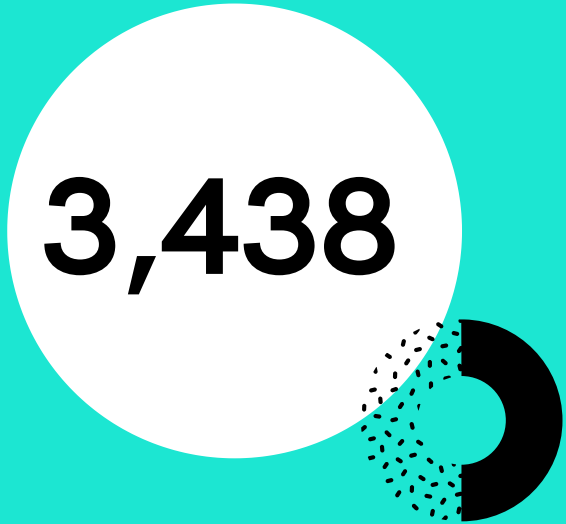
**MEAN
ABSOLUTE
ERROR**



**The lower, the
better!**

RESULTS MAE

Linear Regression



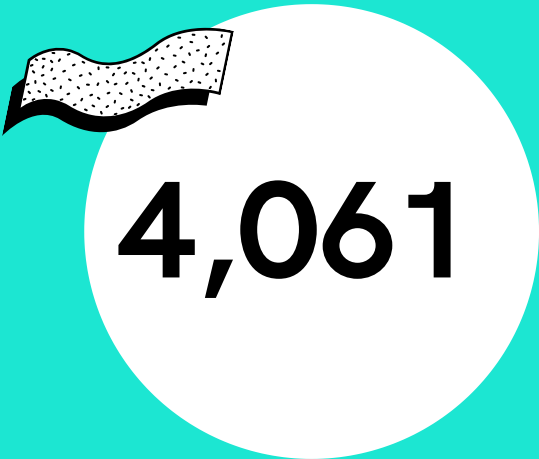
Gradient Boost Regressor



Decision Tree



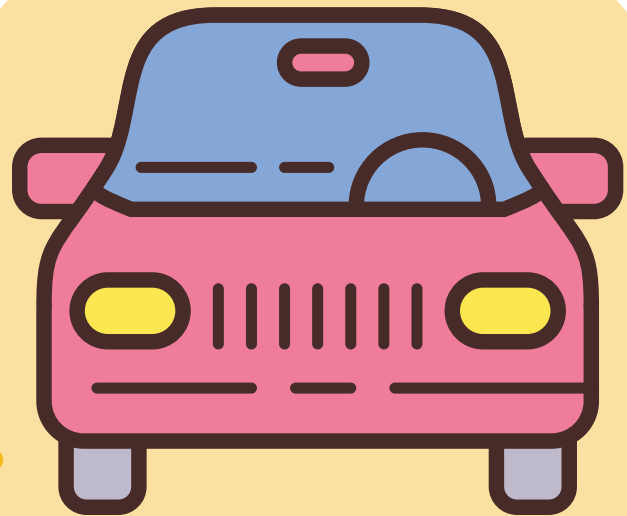
Adaboost Regressor



KNN Neighbours Regressor



Conclusions and Recommendations



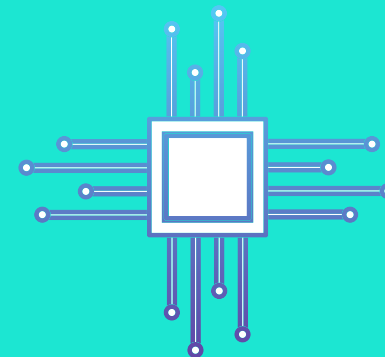
Time



Model and Year



Power



Data Distribution



Parameters

