

# Project 1 - Mercedes-Benz Greener Manufacturing Writeup

## Mercedes-Benz-Greener-Manufacturing

You are required to reduce the time that cars spend on the test bench. You will work with a dataset representing different permutations of features in a Mercedes-Benz car to predict the time it takes to pass testing. Optimal algorithms will contribute to faster testing, resulting in lower carbon dioxide emissions without reducing Daimler's standards.

Step 1: Imported the required libraries

Step 2: Read the data from train.csv and test.csv

Step 3: Collect the Y values into an array

Step 4: Understand the data types we have

Step 5: Check for null and unique values for test and train sets

Step 6: If for any column(s), the variance is equal to zero, then you need to remove those variable(s).

Step 7: Apply label encoder

Step 8: Perform dimensionality reduction

Step 9: Predict your test\_df values using xgboost