**Team Members:**

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**Topic:**Since the first automobile, the Benz Patent Motor Car in 1886, Mercedes-Benz has stood for important automotive innovations. These include, for example, the passenger safety cell with crumple zone, the airbag and intelligent assistance systems. Mercedes-Benz applies for nearly 2000 patents per year, making the brand the European leader among premium car makers. [Daimler’s](https://www.kaggle.com/daimler) Mercedes-Benz cars are leaders in the premium car industry. With a huge selection of features and options, customers can choose the customized Mercedes-Benz of their dreams. .

To ensure the safety and reliability of each and every unique car configuration before they hit the road, Daimler’s engineers have developed a robust testing system. But, optimizing the speed of their testing system for so many possible feature combinations is complex and time-consuming without a powerful algorithmic approach. As one of the world’s biggest manufacturers of premium cars, safety and efficiency are paramount on Daimler’s production lines.

The purpose of this analysis is to work with a dataset representing different permutations of Mercedes-Benz car features to predict the time it takes to pass testing.

This dataset contains an anonymized set of variables, each representing a custom feature in a Mercedes car. For example, a variable could be 4WD, added air suspension, or a head-up display.

The ground truth is labeled ‘y’ and represents the time (in seconds) that the car took to pass testing for each variable.

**Datasets:** Can be found at the link below:   
https://www.kaggle.com/c/mercedes-benz-greener-manufacturing

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