**ABSTRACT**

**Machine Learning based Vehicle Performance Analyzer**

**Problem Statement:**

The automotive industry is extremely competitive. With increasing fuel prices and picky consumers. Automobile makers are constantly optimizing their processes to increase fuel efficiency. The performance analysis of the car is based on the various parameters.

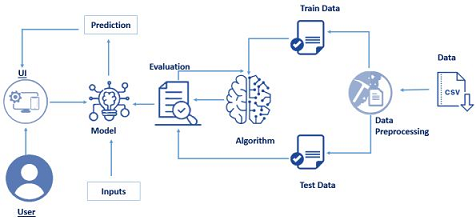
**Objective:**

To develop new car models with advanced features, it is first necessary to analyse its current performance. However, for an effective prediction of a vehicle’s performance, it is important to consider its engine type, number of engine cylinders, fuel type, horsepower, etc. Hence, the proposed model will predict the quality of a car based on these factors which can then be improved by decreasing its fuel consumption and thus increase the overall efficiency. A machine learning model is proposed to help one understand the influence of these parameters on the vehicle’s performance. By applying different algorithms according to the dataset and visualisation, best algorithm for this problem statement is found. And the final estimation will be of much use in the car industry.

**Software used:**

* Python IDLE
* IBM cloud

**Proposed Model:**

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