

Predicting Car Mileage and Make using Linear and Logistic Regression

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Abstract

Is it possible to predict the outcome of a car's miles per gallon based on various factors such as the number of cylinders, displacement, horsepower, weight, acceleration, model year, origin, and car name? Is it possible to predict a car's make based on the same factors? This paper explores these questions using linear regression and logistic regression.

1 Introduction

We identified missing datapoints in horsepower replaced with a '?'. We decided, that since the dataset was so small, that we would manually infer the horsepower based on looking at other cars, with similar values, and deduct the missing horsepower.

2 Research Question

3 Methods

4 Analysis

5 Findings

6 Conclusion