**ECE 9063 Assignment 1**

**Problem Statement**

When people want to sell their used car on the market, they need a fair estimate of the car’s value so that both the seller and buyer can benefit from this transaction. The goal of this report is to tackle the car price estimation problem using regression model. The formal forecasting problem is defined as follow: predict the price of an Audi used car in a year.

**Dataset**

Link to the dataset:

https://www.kaggle.com/adityadesai13/used-car-dataset-ford-and-mercedes

The dataset selected is “Audi.csv”. It contains nine attributes including car model, registration year, price, transmission, mileage, fuel type, road tax, mpg (miles per gallon), and engine size. The dataset has 10668 samples. All the attributes are included in the analysis as they are all important factors to be considered in the real world.

**Algorithms**

The first algorithm is multivariate linear regression. In this model, multiple independent variables may contribute to the dependent variable.

**Evaluation Procedure**

**Comparison of Results**