

# **CAR RESALE VALUE PREDICTION**

## **PROBLEM STATEMENT**

### **Why do we need on car resale value prediction?**

Car makers face several challenges in the second-hand market. The depth crisis in the European Union, the general problem of overcapacity, increasing competition from Asian manufacturers, and the trend toward more eco-friendly cars are only a few factors that add to the difficulty of selling used vehicles in the second-hand market and decrease sales margins. Therefore, car makers require sophisticated decision support systems to sustain the profitability of the used car business.

### **OUR PLAN:**

The main aim of this project is to predict the price of used cars using the various Machine Learning(ML) models. This can enable the customers to make decisions based on different inputs or factors namely, Brand or Type of the car, Model of the car, Location, Year of manufacturing, Type of fuel, Price range or Budget, Mileage to name a few characteristic features required by the customer. The project Car Resale Value Prediction deals with providing the solution to these problems. Through this project, we will get to know which of the factors are significant and tell us how they affect the car's worth in the market.

## **ABSTRACT**

With difficult economic conditions, it is likely that sales of second-hand imported (reconditioned) cars and used cars will increase. In many developed countries, it is common to lease a car rather than buying it outright. After the lease period is over, the buyer has the possibility to buy the car at its residual value, i.e. its expected resale value. Thus, it is of commercial interest to sellers/financers to be able to predict the salvage value (residual value) of cars with accuracy.

In order to predict the resale value of the car, we proposed an intelligent, flexible, and effective system that is based on using regression algorithms. Considering the main factors which would affect the resale value of a vehicle a regression model is to be built that would give the nearest resale value of the vehicle. We will be using various regression algorithms and algorithm with the best accuracy will be taken as a solution, then it will be integrated to the web-based application where the user is notified with the status of his product.

