**Car Price Prediction with Machine Learning**

One of the main areas of research in machine learning is the prediction of the price of cars. It is based on [finance](https://thecleverprogrammer.com/2021/06/02/data-science-projects-on-finance/) and the [marketing](https://thecleverprogrammer.com/2021/05/30/data-science-projects-on-marketing/) domain. It is a major research topic in machine learning because the price of a car depends on many factors. Some of the factors that contribute a lot to the price of a car are:

1. Brand
2. Model
3. Horsepower
4. Mileage
5. Safety Features
6. GPS and many more.

If one ignores the brand of the car, a car manufacturer primarily fixes the price of a car based on the features it can offer a customer. Later, the brand may raise the price depending on its goodwill, but the most important factors are what features a car gives you to add value to your life. So, in the section below, I will walk you through the task of training a car price prediction model with machine learning using the Python programming language.

**Car Price Prediction Model using Python**

The dataset I’m using here to train a car price prediction model was downloaded from Kaggle. It contains data about all the main features that contribute to the price of a car. So let’s start this task by importing the necessary Python libraries and the dataset:

## Training a Car Price Prediction Model

I will use the decision tree regression algorithm to train a car price prediction model. So let’s split the data into training and test sets and use the decision tree regression algorithm to train the model:

The model gives 100% accuracy on the test set, which is excellent.

### **Summary**

So this is how you can train a machine learning model for the task of predicting car prices by using the Python programming language. It is a major research topic in machine learning because the price of a car depends on many factors. I hope you liked this article on the task of training a model for predicting car prices with machine learning. Feel free to ask your valuable questions in the comments section below.