Project Design Phase-I Proposed Solution

Date	19 September 2022
Team ID	PNT2022TMID14677
Project Name	Project - Car Resale value Prediction
Maximum Marks	2 Marks

Proposed Solution:

S.No.	Parameter	Description
1.	Problem Statement (Problem to be solved)	 The main aim of this project is to predict the resale value of a used car using regression algorithms. This could help the customers to find the best price of the used car that is going to be sold.
2.	Idea / Solution description	 The resale value of a car depends on factors such as price, vehicle type, gearbox, model, kilometres run, fuel type, etc. The data is then pre-processed to handle missing values and outliers, to normalize the data and split it into dependent and independent variables. After that the model is developed using regression algorithms to predict the resale price of the car.
3.	Novelty / Uniqueness	 This is a real-time problem which can benefit both customer and seller. The novelty of this proposal is to predict the resale value as near as possible to the actual value.
4.	Social Impact / Customer Satisfaction	 Provided the current economic times, it is more likely that the usage of secondhand cars will increase. This is a mutual commercial interest to both the customers and the sellers. It predicts the resale values of the car based on all its features and prevents over-pricing or under-pricing. This sets an understanding or trust between the seller and the customer.

5.	Business Model (Revenue Model)	 The proposed model could be sold to resellers so that they could use it to find the perfect price for bidding. It could be developed into an application and get revenue from it if more no of users started to using it to find the best value of a second-hand car.
6.	Scalability of the Solution	 The primary model is targeted only for a lower number of audiences. However, as the customer base increases for the model it can be extended to the cloud for effective services.

Solution flow:

Pre-processing:

