Project Title: CAR RESALE VALUE PREDICTION

Project Design Phase-I - Solution Fit Template

1. CUSTOMER SEGMENTS

Customers who purchase a new car can be confident that their investment will be worthwhile. However, due to the rising costs of new cars and their inability to pay, they are purchasing a used car by using this prediction of the car's resale value.

5. AVAILABLE SOLUTIONS

The machine learning algorithm will solve the current issues and produce superior outcomes.

8. CHANNELS OF BEHAVIOUR

Online

Early dataset recognition using machine learning algorithms

Offline

Manually searching the car resale value price

2 .JOBS TO BE DONE / PROBLEM

It is essential to understand their true market value before buying or selling.

6 CUSTOMER CONSTRAINTS

This is essentially a web application that is compatible with all devices, and the resolution to their issue will take one minute.

9. PROBLEM ROOT CAUSE

Customers can be confident that their investment will be profitable when they buy a new car. However, due to the rising price of new cars and consumers' inability to buy new cars because of a lack of funds, used car sales are increasing globally.

3. TRIGGERS

People will believe that we offer a variety of affordable, valuable services.

4. EMOTIONS: BEFORE / AFTER

It reduces the burden, stress, expense, and time placed on Costumers.

7 BEHAVIOUR

- The use of this programme allows customers to simply afford a professional.
- It boosts their searching of second hand car value and speeds up their processes while saving time.
- It guarantees the causes beforehand and offers remedies before the damage occurs.

10. YOUR SOLUTION

Therefore, this paper proposed a machine learning-based random forest algorithm to forecast the value of the resale car software system, where the price is dependent on factors like model of the car, manufacturing year, Brand, city, version, safety, color, if dealer/individual, mileage, fuel type (CNG, Petrol, Diesel), alloy rims, the braking system, the air conditioning, its physical state, the number of previous owners, interior, and power steering.