Project Title: Car resale value prediction
Team ID: PNT2022TMID42617

Project Design Phase-I – **Solution Fit Template**

Date	30-10-2022
Team ID	PNT2022TMID15174
Project Name	Car resale value prediction
Maximum Marks	2 Marks

<table>
<tr><td rowspan="2">Define CS, fit into CC</td><td>

1. CUSTOMER SEGMENT(S)　　　CS
- New buyer
- Seller
- Intermediate seller

</td><td>

6. CUSTOMER CONSTRAINTS　　　CC

- To determine the worthiness of the car by their own within few minutes

- A loss function is to be optimized by spending money for dealers, brokers to buy or sell a car.

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5. AVAILABLE SOLUTIONS　　　AS
- In the past User cannot find the value of used car buy their own without prior knowledge about cars.

- A person who don't know much about the car can also make predictions for used cars easily is

</td><td rowspan="2">Explore AS, differentiate</td></tr>
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2. JOBS-TO-BE-DONE / PROBLEMS　　　J&P

To build a supervised machine learning model using regression algorithms for forecasting the value of a vehicle based on multiple attributes such as
- Condition of Engine
- Age of the used car
- Kilometers driven
- Number of owners

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9. PROBLEM ROOT CAUSE　　　RC

The price predicted by the dealers or brokers for used car is not trustful.

• users can predict the correct valuation of the car remotely without human intervention like car dealers.

• User can eliminate biased valuation predicted by the dealer

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7. BEHAVIOUR　　　BE

The History of Your Car's condition and documents produced by them will be suspicious.

The model is to be built that would give the nearest resale value of the vehicle by eliminating anonymous value predicted by the humans.

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Focus on J&P, tap into BE, understand RC

3. TRIGGERS

TR

users can predict the correct valuation of the car by their own like olx,cars24 and other car resale value prediction websites by using model,year,owner,etc

4. EMOTIONS: BEFORE / AFTER

EM

Before:•
- User will be in fear about the biased values predicted by the humans based on the condition of the car.

After
- user can determine the worthiness of the car by their own without human intervention.

10. YOUR SOLUTION

SL

- The main aim of this project is to predict the price of used cars using the Machine Learning (ML) algorithms and collection data's about different cars. The project should take parameters related to used car as inputs and enable the customers to make decisions by their own.

8. CHANNELS of BEHAVIOUR

customer should predict the worth of the car byusing different parameters given by the owner.

• User Should confirm the details provided about the vehicle in RTO online.

• user can decide by seeing the exterior and interior condition of the car.

• User can test the performance of the car and to buy it up in a affordable price based on its condition.