Project Title: Car Resale Value Prediction | **Project Design Phase-I - Solution Fit Template** | **Team ID: PNT2022TMID05518**

DefineCS,fitintoCC

1.CUSTOMERSEGMENT(S)

Whoisyourcustomer?
i.e.workingparentsof0-5y.o.kids

Usedcarsellers

6.CUSTOMERCONSTRAINTS

Whatconstraintspreventyourcustomersfromtakingactionorlimittheirchoices ofsolutions?i.e.spendingpower,budget,nocash,networkconnection,availabledevices.

•Todeterminetheworthinessofthecar bytheirownwithinfewminutes

•Alossfunctionistobeoptimizedby spendingmoneyfordealers,brokerstobuyor sellacar.

5.AVAILABLESOLUTIONS

Whichsolutionsareavailabletothecustomerswhentheyfacetheproblem

orWhatpros&consdothesesolutionshave?i.e.penandpaperisanalternativetodigital notetakingneedtogetthejobdone?Whathavetheytriedinthepast?

•InthepastUsercannotfindthevalueofused carbuytheirownwithoutpriorknowledge aboutcars.

•Apersonwhodon'tknowmuchaboutthe carcanalsomakepredictionsforusedcars easily.

ExploreAS,differentiate

2. JOBS-TO-BE-DONE / PROBLEMS J&P

Which jobs-to-be-done (or problems) do you address for your customers? There could be more than one; explore different sides.

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
•Year of Registration
•Kilometers
•Number of Owner

9.PROBLEMROOTCAUSE RC

Whatistherealreasonthatthisproblemexists?Whatisthebackstorybehind theneedtodothisjob?
i.e.customershavetodoitbecauseofthechangeinregulations.

• Thepricepredictedbythedealersor brokersforusedcarisnottrustful
•Userscanpredictthecorrectvaluation ofthecarremotelywithouthuman interventionlikecardealers.
•Usercaneliminatethevaluation predictedbythedealer

7.BEHAVIOUR BE

Whatdoesyourcustomerdotoaddresstheproblemandgetthejobdone?

i.e.directlyrelated:findtherightsolarpanelinstaller,calculateusageandbenefits; indirectlyassociated:customersspendfreetimeonvolunteeringwork(i.e.Greenpeace)

- TheHistoryofYourCar'sconditionand documentsproducedbythemwillbe Suspicious.
- Themodelistobebuiltwouldgivethe nearestvalueofthevehicleby eliminatinganonymousvaluepredicted byusinghumans.

FocusonJ&P,tapintoBE,understandRC

3. TRIGGERS TR

What triggers customers to act? i.e. seeing their neighbour installing solar panels, reading about a more efficient solution in the news.

Users can predict the correct valuation of the car by their own like Olxcars, Cars24 and other car resale value prediction websites by using model,year,owner,etc.

10. YOUR SOLUTION SL

If you are working on an existing business, write down your current solution first, fill in the canvas, and check how much it fits reality.
If you are working on a new business proposition, then keep it blank until you fill in the canvas and come up with a solution that fits within customer limitations, solves a problem and matches customer behaviour.

• 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.

8. CHANNELS of BEHAVIOUR CH

8.1 ONLINE
What kind of actions do customers take online? Extract online channels from #7

8.2 OFFLINE
What kind of actions do customers take offline? Extract offline channels from #7 and use them for customer development.

• Customer should predict the worth of the car by using different parameters given by the owner.

Identifystrong TR&EM

4. EMOTIONS: BEFORE / AFTER EM

How do customers feel when they face a problem or a job and afterwards?
i.e. lost, insecure > confident, in control - use it in your communication strategy & design.

Before:

- User will be in fear about the biased valuespredicted by the humans based on the condition of the car. After:
- User can determine the worthiness of the carby their own without human intervention.

The project should take parameters related to used car as inputs and enable the customers to make decisions by their own.

- User Should confirm the details provided aboutthe vehicle in RTO online.
- User can decide by seeing the exterior andinterior condition of the car.
- User can test the performance of the carand to buy it up in a affordable price based on its condition.