Template

Empathy map canvas

Use this framework to empathize with a customer, user, or any person who is affected by a team's work. Document and discuss your observations and note your assumptions to gain more empathy for the people you serve.

Originally created by Dave Gray at

XPLANE®

Share template feedback

Develop shared understanding and empathy

Summarize the data you have gathered related to the people that are impacted by your work. It will help you generate ideas, prioritize features, or discuss decisions.

WHO are we empathizing with?

Who is the person we want to understand?
What is the situation they are in?
What is their role in the situation?

sales of second-hand imported (reconditioned) cars and used cars

GOAL

it is common to lease a car rather than buying it outright.

What do they need to DO?

What do they need to do differently?
What job(s) do they want or need to get done?
What decision(s) do they need to make?
How will we know they were successful?

In order to predict the resale value of the car, we proposed an intelligent, flexible, and effective system that is based on using regression algorithms.

After the lease period is over, the buyer has the possibility to buy the car at its residual value, i.e. its expected resale value.

What do they HEAR?

What are they hearing others say?
What are they hearing from friends?
What are they hearing from colleagues?
What are they hearing second-hand?

What do they THINK and FEEL?

PAINS

What are their fears, frustrations, and anxieties?

GAINS

What are their wants, needs, hopes, and dreams?

a regression model is to be built that would give the nearest resale value of the vehicle.

Considering the main factors which would affect the resale value of a vehicle

Front-end form asks users to fill values which are required for the prediction

An additive model to add weak learners to minimize the loss function.

User can enter details only of fields like purchase price of car, kilometers driven, fuel of car, year of purchase.

What do they SEE?

What do they see in the marketplace?
What do they see in their immediate environment?
What do they see others saying and doing?
What are they watching and reading?

Decision trees are used as the weak learner in gradient boosting

User enters the details of the car into the form given and accordingly the car resale value is predicted.

What do they SAY?

What have we heard them say?
What can we magine them saying?

ML model to make prediction

What other thoughts and feelings might influence their behavior?

This dataset contains data of 5 main features i.e., fuel type, kms driven, city, car purchase year and resale value

best 70% accuracy so the user can get estimated value before he resales the car

We will be using various regression algorithms and algorithm with the best accuracy will be taken as a solution,

then it will be integrated to the web-based application where the user is notified with the status of his product

What do they DO?

What do they do today?
What behavior have we observed?
What can we imagine them doing?

the log transformation on the target variable is applied when it has skewed distribution and we need to apply an inverse function on the predicted values to get the actual predicted target value.

machine learning algorithms are used to predict price/target-variable.