

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.

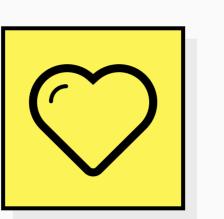
Originally created by Dave Gray at





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.



What do they HEAR?

Front-end form

asks users to fill

values which are

required for the

prediction

ML model to

make

prediction

What are they hearing others say?

What are they hearing from friends?

What are they hearing second-hand?

What are they hearing from colleagues?

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?

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.

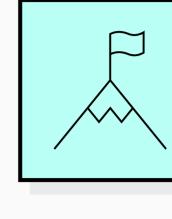
sales of second-hand imported (reconditioned) cars and used cars

GOAL

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

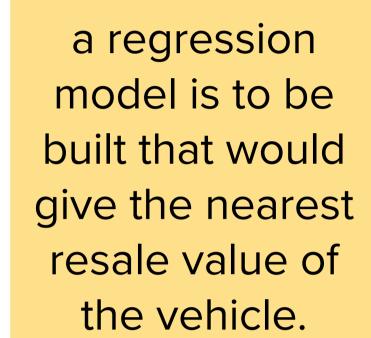
What do they need to DO?

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?

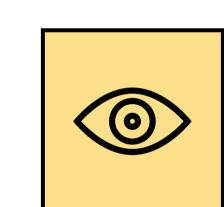


After the lease period

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

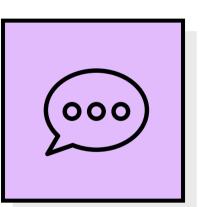


Considering the main factors which would affect the resale value of a vehicle



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?



What do they SAY?

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

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 THINK and FEEL?

PAINS

What are their fears, frustrations, and anxieties?

An additive

model to add

weak learners to

minimize

the loss

function.



(~<u>A</u>^

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

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

User enters the

details of

the car into the

form given and

accordingly the car

resale

value is predicted.

Decision trees are used as the weak learner in gradient boosting

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

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/targetvariable.