С

J&P

С

R

Define

В

Explore AS, differentiate

1. CUSI'OMER SEGMENI'(S)

Who is youí customeí? i.e. woíking paíents of 0-5 y.o. Kids

Oíganizations who want to iecognize the handwiitten digits of people Example:

- ✓ Post office,
- ✓ Data entity offices,
- ✓ Foíensic Depaítments.

6. CUSIOMER CONSIRAINI'S

What constíaints pievent youi customeis fíom taking action of limit theil choices of solutions? i.e. spending powei, budget, no cash, netwoik connection, available devices.

In mobiles and laptop, theíe aíe possibilities foí lack of stable inteínet connections and unavailability of devices. It is haíd task foí the machine to íecognize the handwíitten digits which aíe not peífect.

5. AVAILABLE SOLUTIONS

Which solutions are available to the customers when they face the problem of need to get the job done? What have they tried in the past? What pros & cons do these solutions have? i.e. pen and paper is an alternative to digital note taking.

Alíeady theíe aíe existing solutions available foí handwiitten íecognition. But, most of them aíe

I'he solution píoposed by ouí system has moíe accuíacy and it is efficient in íecognition of manually wiitten digits.

2. JOBS-l'O-BE-DONE / PROBLEMS

Which jobs-to-be-done (oí píoblems) do you addiess foi youi customeis? l'heie could be moie than one; exploie diffeient sides.

Jobs to be done: I'o identify the digits in the manually wiitten foims,

Cheques filled by people in banks, Phone numbeís wíitten manually in íegisteí notebook of hospitals.

Píoblems: Dim lighting and weak eyesight

9. PROBLEM ROO! CAUSE

What is the feal feason that this problem exists? What is the backstory behind the need to do this job?

i.e. customeís have to do it because of the change in íegulations.

Handwiitten digits aie in diffeient fonts and sizes, haid to iecognize the digits due to vaiious factois such as dim lighting, weakening eyesight.

7. BEHAVIOUR

inaccuíate.

What does you' custome' do to addiess the pioblem and get the job done?

i.e. diíectly íelated: find the íight solaí panel installeí, calculate usage and benefits; indiíectly associated: customeís spend fíee time on volunteeíing woík (i.e. Gíeenpeace)

customeí wants available devices with stable inteínet connection and quality cameías.

3. I'RIGGERS

Identify strong

뒭

What tiiggeis customeis to act? i.e. seeing theií neighbouí installing solaí panels, feading about a mofe efficient solution in the news.

Adveitisement in the maiket about the efficient (ecognition of digits.

Aíticles about the achievements made by oui pioject.

4. EMOIIONS: BEÏORE / AÏI'ER

How do customeis feel when they face a pioblem of a job and afteiwaids?

i.e. lost, insecuíe > confident, in contíol -use it in youí communication stiategy & design.

Defects aie common and oui pioject is not an exception

When the system failed to iecognize the digit,

Customeí Mentality:

Befoie:(Failuie)

We would give quaiantee that it would work most of the time

and if any eiíoí occuis, they can contact us at any time.

So, customeís can feel at ease.

Afteí:(Failuíe)

I'hey have no need to panic when the failuíe occuís l'hey can easily contact us to iectify the eiioi.

We would solve the defect as soon as possible.

10. YOUR SOLUTION

If you are working on an existing business, write down youí cuíient solution fiíst, fill in the canvas, and check how much it fits feality. 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 customeí limitations, solves a píoblem and matches customeí behaviouí.

Ouí solution aims to íecognize handwiitten digits using machine leaining techniques theieby saving costs to the ofganization improving employee píoductivity.

In our model we use AlexNet, which is one of the CNN aichitectuies. AlexNet allows foi multi-GPU tiaining by putting half of the model's neuíons on one GPU and the othei half on anotheí GPU. Not only does this mean that a biggeí model can be tíained, but it also cuts down on the tiaining time. It also ieduces the oveifitting pioblem by Data Augmentation and Díopout.

8. CHANNELS of BEHAVIOUR

ONLINE 1.

What kind of actions do customeis take online? Extiact online channels from 7#

Requiíes Stable inteínet connection foí image píocessina.

OÏÏLINE

What kind of actions do customeis take offline? Extiact offline channels from 7#and use them foí customeí development.

Obtain modein electionic devices and check they are working

