Explore AS, differentiate

1. CUSTOMER SEGMENT(S)

CS

J&P

TR

EM

Who is youi customei? i.e. woîking paíents of 0-5 y.o. kids

> Industries that provide sanitation facilities and products (water purifiers, quality testers etc.) can deploy this solution to provide more waste water treatment plants, better insights in health concerns and there may also be an increase in awareness and demand for better water quality testing and availability.

6. CUSTOMER CONSTRAINTS

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What constiaints pievent youi customeis from taking action of limit their choices

of solutions? i.e. spending power, budget, no cash, network connection, available devices.

Customers need to know about the constraints

present in the sample datasets such as temperature,

PH and nitrate content. The disease caused by

Because there are many disease which is spread or

caused by water, so it's user responsibility to ensure

impure water can be avoided by this application.

CC

RC

5. AVAILABLE SOLUTIONS

BE

Which solutions are available to the customers when they face the problem of need to get the job done? What have they tfied in the past? What pios & cons do these solutions have? i.e. pen and papei is an alteinative to digital notetaking

By using Random Forest Regression Algorithm we need to train the dataset and see the incremental improvement in the prediction rate. Some of the available solutions are the quality is analyzed using the color of water, origin of water etc. And the provided solutions from these factors are not guaranteed to be true.

2. JOBS-TO-BE-DONE / PROBLEMS

Which jobs-to-be-done (of píoblems) do you addiess foi youí customeis? Pheie could be moie than one; exploie diffeient sides.

Necessary to analyze and predict the quality of water samples. To detect the contaminants present in those samples patient dataset such as Temperature, PH, conductivity etc.. To prevent and control of water borne diseases.

9. PROBLEM ROOT CAUSE

the purity.

What is the feal feason that this pfoblem exists? What is the back stoiy behind the need to do this job?

i.e. customeis have to do it because of the change in jegulations

bodies.Due Contamination of water industrialization, high pollution is the mainproblem. Environmental changes.

7. BEHAVIOUR

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; indifectly associated; customess spend fiee time on volunteesing work (i.e. Gieenpeace)

User uses various experimental techniques like analyzing the quantity of chemical present and also analyses physical property of the water. This research work suggests the need for ensuring water quality is important before use.

3. TRIGGERS

<u>≥</u>

TR &

dentify strong

What tfiggefs customefs to act? i.e. seeing theif neighbouf installingsolaf panels, feading about a mofe efficient solution in the news

To drink pure and healthy water.

4. EMOTIONS: BEFORE / AFTER

How do customeís feel when they face a píoblem oí a job and afteíwaíds? i.e. lost, insecuíe > confident, in contíol-use it in youí communication stíategy & design.

Customers feel irritated because of the time taken to analyze the water quality is high and expensive.

10. YOUR SOLUTION

If you aie woiking on an existing business, wiite down youi cuiient solution fiist, fill in the canvas, and check how much it fits feality.

If you aie woiking on a new business pioposition, then keep it blank until you fill in the canvas and come up with a solution that fits within customei limitations, solves a pioblem and matches customeí behaviouí.

The data from different sources are taken and with help of a water quality analyst. The solution is derived from the data sets by comparing the accuracy rate with previous data set and the current data set.By using ML algorithms and analysis methods the hardness, conductivity and turbidity are identified and the results are provided.

8. CHANNELS of BEHAVIOUR

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

Python Web Frame Works, Python For Data Visualization, Data Preprocessing Techniques, IBM Watson Studio and Python-Flask.

OFFLINE

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

Analyse the water's chemical and physical property using experimental methods.

