Project Design Phase-I - Solution Fit Template

Project Title: Exploratory Analysis of Rain Fall Data in India for Agriculture   **Team ID:** PNT2022TMID52964

1. CUSTOMER SEGMENT(S) `CS`

Farming practitioners in both urban and rural areas

6. CUSTOMER CONSTRAINTS `CC`

i. Financial situation
ii. Lack of awareness
iii. Unaccustomed to modern Farming practices

5. AVAILABLE SOLUTIONS `AS`

The available solutions are,

i. Abstain from farming practices in periods of heavy rain
ii. Well planned drainage system
iii. Set up a rain cover
iv. Water structures

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

The jobs to be done are,
i. Upload the rainfall dataset
ii. Prepare Dataset
iii. Exploring the data
iv. Perform metrics and rules
v. Visualising the data

The Problems are,
i. Wrong input
ii. Data latency
iii. Precision

9. PROBLEM ROOT CAUSE `RC`

i. Improper water management
ii. Torrential rainfall
iii. Unpredictable weather
iv. Poor resource management

7. BEHAVIOUR `BE`

The behavior include,

i. Seek Institutional aid
ii. Take on excessive debt
iii. Rely on uneducated guidance

3. TRIGGER

TR

The Triggers of the solution
are,
i. Repeated financial loss
ii. Poor yield

4. EMOTIONS: BEFORE / AFTER

EM

Before: Panic in case of excess rainfall
oncers regarding resulting financial
hardships

After: Feel relieved knowing the rainfall
prediction

10. YOUR SOLUTION

SL

Our proposed solution consists of,

i.   Use historical rainfall
data

ii.   Predict the rainfall
pattern for a given period

iii.   Categorize the intensity
of rain

iv.   Develop a webpage to
provide necessary guidelines
for farmers

8. CHANNELS of BEHAVIOUR

CH

The channels that support behaviors are
    i. Proper visualization of data
    ii. Choosing appropriate data
    iii. Proper marketing and advertising