Project Title: Analytics forHospital's Healthcaíe Data

Project Design Phase-I - Solution Fit Template

Team ID: PNT2022TMID41798

Define CS, fit

1. CUSI˜OMER SEGMENI˜(S)

- Patients
- Hospital Management

6. CUSI˜OMER CONSI˜RAINI˜S

Customers require more accurate and early predictions of Length of Stay (LOS).

5. AVAILABLE SOLUI'IONS

There are few Length of Stay prediction model available that lacks in predicting some exceptional case where the length of stay may extend.

Explore AS,

Focus on J&P, tap

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

Length of stay prediction may varybased on the patient's stage/severity of the disease. Patientsmay get dissatisfied if there is no bed availability.

9. PROBLEM ROOI˜ CAUSE

Unpredictable length of stay and improper medicalrecords are the root causeof the problem.

7. BEHAVIOUR

Developing a model which predicts the length of stay ofunexceptional cases with better accuracy.

Focus on J&P, tap

Identify stíong I'R &EM

3. I˜RIGGERS

To accurately predict thelength of stay.

4. EMOI'IONS: BEÏORE / AÏI˜ER

Before: Patients often get frustratedand depressed.

After: They feel better and get a newbeginning.

10. YOUR SOLUI'ION

Our solution includes using algorithms like Fuzzy Logic, Tree Bagger, Random Forest, and Decision Trees to predict the length of stay more accurately. Gives frequent updates about bed availability.

8. CHANNELS of BEHAVIOUR

Users will check for bed availability.

Identify stíongI'R & EM

Team Members:

Vaishnavi.E(Team Leader)

Suji.G

Kalaiabinaya.S

Shalini.S