Early Detection Of Diabetic Retinopathy

Project Design Phase-I – Problem Fit Solution

Team ID: PNT2022TMID19611

Define CS,

1. CUSTOMER SEGMENT(S)

Hospitals--> Sugar patients

CS

6. CUSTOMER CONSTRAINTS

5. AVAILABLE SOLUTIONS

Highly confidential persons are allowed to

Knowledge to access

access

The available solution is that predicting diabetic retinopathy using deep learning algorithms and with comparitively less accuracy

2. PROBLEMS

Severe vision loss

Difficulty driving, especially at night, and trouble reading

9. PROBLEM ROOT CAUSE

7. BEHAVIOUR

Over time, too much sugar in your blood can lead to the blockage of the tiny blood vessels that nourish the retina, cutting off its blood supply.

cause damage to your eyes that can lead to poor vision or even blindness.

The patients can take medical tests and get checked in the hospital

The test results can be utilized by the deep learning model

Explore AS, differentiate

3.TRIGGERS

The likelihood of developing this ocular problem of blood sugar management.

10. YOUR SOLUTION

Diabetes mellitus frequently results in diabetic retinopathy (DR), increases with the duration of diabetes and the degree which results in lesions on the retina that impair vision. Blindness may result if it is not caught in time. The scientific community has proposed numerous AI-based techniques for the identification and categorization of diabetic retinopathy on fundus retinal images. Additionally, it might enhance the patient recruiting process for clinical trials focusing on

✓ 8. CHANNELS OF BEHAVIOUR



ONLINE

Through online searches, people look up the symptoms and causes as well as the locations of medical testing labs. Additionally, they might prefer to receive the results right away.

Identify strong TR & EM

4. EMOTIONS: BEFORE / AFTER BEFORE: -->Anxious about getting checked with doctor immediately and knowing their medical condition. AFTER: -->After diagnosis and getting the results for their tests patients would be happy that they got to know about their conditions at very early stage and get cured in a painless way.