DETECTION OF PARKINSON'S DISEASE USING MACHINE LEARNING

PROBLEM-SOLUTION FIT CANVAS

1.CUSTOMER SEGMENT(S)

In Parkinson's disease the market is segmented as Distribution channel, Patient care Settings and Regions.Based on the Distribution channels the market is has a wide scope of industries like Hospitals, pharmacy.

From this Project design we cover all the major vital segments.

Pharma Industry is the major cover as it has easy accessing compared to others.

2.PROBLEMS/PAINS

Major problem that is faced in this project is that Parkinson's disease influence level cannot be easily figured out until it has been in its final stage.

3.TRIGGERS TO ACT

Triggers that need to be tactically viewed is that the data is available in image format and training the algorithm model with images is a serious challenge

4.EMOTIONS

Since only Hand Written spiral images or spirals are been used as inputs to the datasets, the implementation of the proposed model gets complicated

5.AVAILABLE SOLUTIONS

For Detecting parkinson's Disease using Machine Learning problem already have a some existing solution. The detection done by a differ kind of data sets and algorithm. Detection done by using deflection in the voice and other methods as medical reports like dopamine level, scan reports. In available designs the classificati on algorithsms, XG booster algorithm, Random forest algorithm, KNN algorithm are mostly used. The efficiency of the available design is 73%.

6.CUSTOMER LIMITATIONS

The end user gets a result of whether they are affected by the disease or not.

Users upload hand drawn spiral images as inputs to the model algorithm.

7.BEHAVIOR

Behaviour of the model is that it detects whether the patient is affected by Parkinson's disease and accuracy is termed to be moderate as it does not sense the stages. Users can access via both online and offline. Cloud Storage for online and physical hardware for offline.

8.CHANNELS OF BEHAVIOR

OFFLINE: Hand Drawn spirals or Wave image are used as inputs to the model to detect the Updation of the model is been easy since new Data set algorithms are used.

ONLINE: Online Cloud storage is used in online method. Major easiness is created since users can access the data from anywhere and anytime. Scalability has been expanded.

9.PROBLEM ROOT/CAUSE

Major drawback of the proposed model is that the accuracy rate is vastly affected since only model returns key of disease affected or not. It does not intrude in stage detection, since this could lead to serious problem in final stage as it does not have any treatment.

10.YOUR SOLUTION

For this Project Design, we use the disease affected patients hand drawn images of spirals and the healthy person hand drawn images as a dataset. Spilit the Dataset into the Training and Testing data. Apply the data in the Classified algorithm. Trains the model and calculate the accuracy of the model and use the model as a design for detect the Parkin son's disease. The key feature of the solution is we use the patients hand drawn image of the spirals as inputs.