DETECTING PARKINSON'S DISEASE USING MACHINE LEARNING

PROBLEM-SOLUTION FIT CANVAS

Unnamed

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 Hospitals pharmacies, retailer pharmacies and online pharmacies.

From this Project design we cover all the customer segements. Mostly this Project design
cover the Online Pharmacies. because, it have a easy accessing Compare to the other Designs.

2.PROBLEMS/PAINS

In this Project design the Accuracy is the main problem because, the design is detecting the Parkinson's disease not detect the Parkinson's disease level (The disease in earlier stage or Final stage).

3.TRIGGERS TO ACT

For this project design, the Implementation of the dataset is the Major trigger. Because, the datas are in the image formats. If the data's are image formats the algorithm data Training is also complex.

4.EMOTIONS

The emotion of the project design is we only, use the hand drawn images of the spirals as a dataset and input. So, the implementation of the design is Hard.

5.AVAILABLE SOLUTIONS

For Detecting parkinson's Disease using Machine Learning problem already have a some existing solution. The detection done by a differ ent kind of datasets and algorithm. Detection done by using deflection in the voice, Detection done by a 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

For customer, the design provides the detail "The person affected by the Parkinson's disease or not".

From customer side they give only the hand drawn image of the spirals or waves as a input. If the design in the cloud storage the customer easily access in online.

7.BEHAVIOR

The behavior of the design is detect the presence of Parkinson's disease in a individual. The accuracy of the design is moderate .If the design in the cloud storage, the customer can easily access the model via online. In offline also the design is easily access by the customer.

8.CHANNELS OF BEHAVIOR

OFFLINE: In offline, we just use the hand drawn spirals or wave images as input and detect the disease. In offline we easily update the model (Using new data set of algorithms).

ONLINE: For online we upload the model in cloud storage. After, the customer easily access the model in anywhere any time. It is increase the scalability. But, any future updates that takes more time.

9.PROBLEM ROOT/CAUSE

In this project design the accuracy is the major problem cause because, we only detect the Patient is affected by a Parkin son's disease or not. we did not find the disease stage(earlier or final stage).The Late detection (Final stage) leads no treatment. From the hand drawn image dataset, the data classification is a another problem cause.

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 datas. Apply the datas in the Classified algorithm. Trains the model algorit hm and calculate the accuracy of the model and use the model as a design for detect the Parkin son's disease. The Uniquness of the solution is we use the patients hand drawn image of the spieals as a input.