Design Phase-I - Solution Fit Template

Project Title: AI-powered Nutrition Analyzer for Fitness Enthusiasts Project

Team ID : PNT2022TMID43812

Define CS, fit into CC

1. CUSTOMER SEGMENT(S) CS

Ouí customeís aíe one who aíe tíying to live a healthy life and who want to analyze theií health conditions by using the app which helps to íecognize the food items and need the list of nutíition content píesent in it.

6. CUSTOMER CC

Accuíate data
Data Netwoík
Customeí Satisfaction
Food oí nutíition íealated analyzeí

5. AVAILABLE SOLUTIONS AS

The available solution alíeady píesent is the in-built items píesent which is been alíeady given and píesent and stoíed by the otheí peísons. Foí example, theíe is alíeady the items and the quantity píesent in it and now as a diffeíent thing we aíe doing as the pictuíe captuíe and making the image íecognising one.

Explore AS, differentiate

Focus on J&P, tap into BE, understand RC

2. JOBS-I'O-BE-DONE / PROBLEMS J&P

The useí can captuíe the images of diffeíent fíuits and then the image will be sent the tíained model. l'he model analyses the image and detect the nutíition based on the fíuits like (Sugaí, Fibeí, Píotein, Caloíies,etc.).

9. PROBLEM ROOI' CAUSE RC

Nowadays new dietaíy assessment and nutíition analysis tools enable moíe oppoítunities to help people undeístand theií daily eating habits, exploíing nutíition patteíns and maintain a healthy diet.

6. BEHAVIOUR BE

The main aim of the píoject is to building a model which is used foí classifying the fíuit depends on the diffeíent chaíacteíistics like colouí, shape,textuíe etc.

Focus on J&P, tap into BE, understand RC

3. l'RIGGERS

l'R

Some people aíe veíy fitness conscious and they become healthy without any diseases and that tempts the otheí people to make them also to be healthy and fit

4. EMOl'IONS: BEFORE / AFl'ER Emotions Befoíe:

l'hey don't have the fitness welness in them and then they don't live a healthy life and eat moíe junk foods.

Emotions Afteí:

1'hey analyze the food which they aíe eating and make healthy life.

EM

10. YOUR SOLUl'ION

SL

Fíuit classification is done by an algoíithm based on convolution neuíal netwoík has been applied foí fíuit detection. In this we use high-quality, fíuit-containing image dataset foí tíaining a neuíal netwoík to detect fíuits. l'he efficiency of CNN can match human level peífection. Convolutional neuíal netwoík algoíithm in DNN which also peífoíms efficiently foí visual íecognition including photo and video,face íecognition, handwíitten digit íecognition. l'his model woíks efficiently with this aíchitectuíe foí fíuit íecognition.

8. CHANNELS OF BEHAVIOUR

CH

- Model Building
- Impoít the model building Libíaíies
- Initializing the model
- Adding Input Layeí
- Adding Hidden Layeí
- Adding Output Layeí
- Configuíe the Leaíning Píocess
- l'íaining and testing the model
- Save the Model