Project Title: AI-powered Nutrition Analyzer for Fitness Enthusiasts

Project Design Phase-I - Solution Fit Template

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Define CS, fit into CC

1. CUSTOMER SEGMENT(S) CS

Our customers are one who are trying to live a healthy life and who want to analyze their health conditions by using the app which helps to recognize the food items and need the list of nutrition content present in it.

6. CUSTOMER CC

Accurate data
Data Network
Customer Satisfaction
Food of nutrition related analyzer

5. AVAILABLE SOLUTIONS AS

The available solution already present is the in-built items present which is been already given and present and stored by the other persons. For example, there is already the items and the quantity present in it and now as a different thing we are doing as thepicture capture and making the image recognising one.

Explore AS, differentiate

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

2. JOBS-TO-BE-DONE / PROBLEMS J&P

The user can capture the images of different fruits and then the image will be sent the trained model. The model analyses the image and detect the nutrition based on the fruits like (Sugar, Fiber, Protein, Calories,etc.).

9. PROBLEM ROOT CAUSE RC

Nowadays new dietary assessment and nutrition analysis tools enable more opportunities to help people understand their daily eating habits, exploring nutrition patterns and maintain a healthy diet.

6. BEHAVIOUR BE

The main aim of the project is to building a model which is used for classifying the fruit depends on the different characteristics like colour, shape, texture etc.

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

3. ľRIGGERS ľR

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. EMOľIONS: BEFORE / AFľER Emotions Befoíe:

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

Emotions Afteí:

ľhey analyze the food which they aíe eating and make healthy life.

EM

10. YOUR SOLUľION 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. ľhe 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. ľhis 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
- ľíaining and testing the model
- Save the Model