

AI-Power Nutrition Analysis Fitness Enthusiast

Project Design Phase-1

Problem Solution Fit:

AI in areas such as immunity boosting foods, dietary assessment, gut microbiome profile analysis, and toxicity prediction of food ingredients.techniques are growing rapidly.

Consulting a dietician is something that everyone cannot afford. Also, consulting a dietician could be time-consuming. An expert system method to recommend a personalized diet plan.

The task of food detection/classification is not easy as it seems. all possible options related to the given Image.

For example, if a user uploads a dal image then the Foodify.ai app returns all dal's from our nutrition database.

Diet Monitoring and Health Analysis Using Artificial Intelligence.

Our food recognition system employs visual sensors to capture food images as the source data. Due to the recent advances of electronics, visual sensors are now available in many Internet -of - Things(IoT) devices, such as smartphones Control of health and well -being. Additionally, AI increases the ability for healthcare professionals to better understand the day -to -day patterns and needs of the people they care for,and with that understanding they are able to provide better feedback, guidance and support for staying healthy.

A Computer Vision Based Indian Food Detection and Nutrition CalculationApp

Easy to use Highly productive No more man power required.

Calculation cannot be accurate Software development is difficult Image processing canalways not be correct.

AI algorithms can help the food delivery systems to manage the orders accurately. It will reflect the customer's order to two different Easy to use Highly productive No more man power required Calculation cannot be accurate Software development is difficult Image processing canalways not be correct delivery

partners, one who is in the nearby location of the delivery address and the other who is in the nearby location of the restaurant where the customer has ordered the food.

tells exactly what to eat according to the body type. All of this is packaged in a comprehensive nutrition and activity tracker.

One limitation is that power analyses do not typically generalize very well. If you change the methodology used to collect the data or change the statistical procedure used to analyze the data, you will most likely have to redo the power analysis.

The main aim of the project is to build a model which is used for classifying the fruit depends on the different characteristics like color, shape, texture etc. Here the user can capture the images of different fruits and then the image will be sent the trained model. The model analyzes the image and detect the nutrition based on the fruits like (Sugar, Fiber, Protein, Calories, etc.).

Recently, the development of the large-scale biologic database, methods for characterizing patients, and the use of smart technology have greatly improved the application of precision medicine. Computational tools are now considered important to analyze large data sets. In this approach, the healthcare providers depend on electronic clinical decision support to make the right treatment decisions. Intelligent computer systems can be useful in this regard because the data generated requires reliable analysis from several variables. Artificial Intelligence (AI) has gained more popularity among computational tools.

Define CS, fit into CC	1. CUSTOMER SEGMENT(S) CS Fitness Enthusiasts who like to lead a healthy life and well balance diet.	6. CUSTOMER CONSTRAINTS CC <ul style="list-style-type: none"> Lack of or inaccurate information about foods nutrition values. Only thinking about leading healthy life without taking actions. Not having a personal assistant to monitor their daily nutritional intake 	5. AVAILABLE SOLUTIONS AS Artificial Intelligence based software solutions to aid in predicting foods and analysing nutritions that help fitness enthusiasts to track their daily nutrition intake to maintain a healthy life.	Explore AS differentiate
	2. JOBS-TO-BE-DONE / PROBLEMS J&P Individual physical exercise or yoga without prior knowledge may lead to muscle cramp. So can be tackled by use of animated guide videos for that.	9. PROBLEM ROOT CAUSE RC Tracking daily nutrition intake which is important to stay fit. Due to abundant resources online about fitness, tracking nutrition will become more challenging and inaccurate.	7. BEHAVIOUR BE <ul style="list-style-type: none"> Have a regular and enough sleep Have a application to track their daily nutrition values. Have a perfectly balanced diet plan. 	
Focus on J&P, fit into BE, understand RC	3. TRIGGERS TR Share the neighbor's motivated content to stimulate the user	10. YOUR SOLUTION SL Creating a web application for users to track, monitor and maintain their health by performing specialized suggestions for each and every user.	8.CHANNELS of BEHAVIOUR CH 8.1 ONLINE Taking advice from the nutrition expert and following fitness based online apps. 8.2 OFFLINE Working out regularly, and maintaining the regular activities as per the prescribed schedule	Identify strong TR & EM
	4. EMOTIONS: BEFORE / AFTER EM Before: People cannot track their health details People cannot improve their health in proper manner After: Users can maintain and can improve their body fitness			