Project Design Phase-1
Solution Architecture

DATE	11-10-2022
TEAM ID	PNT2022TMID14604
PROJECT NAME	POWERED NUTRITION ANALYZER FOR FITNESS ENTHUSIASTS

AI-powered Nutrition Analyzer for Fitness Enthusiasts Food is essential for human life and has been the concern of many healthcare conventions. 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. Nutritional analysis is the process of determining the nutritional content of food. It is a vital part of analytical chemistry that provides information about the chemical composition, processing, quality control and contamination of food.

The main aim of the project is to building 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 analyses the image and detect the nutrition based on the fruits like (Sugar, Fiber, Protein, Calories, etc.).

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IMAGE DATA

DATA PREPROCESSING

TRAIN DATA

DL ALGORITHM

TEST DATA

EVALUATION

PREDICTION

MODEL

INPUTS

USER INTERFACE

USER