AI-POWERED NUTRITION ANALYZER FOR FITNESS ENTHUSIASTS

PROJECT OBJECTIVES:

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 ofdetermining 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.

BY THE END OF THIS PROJECT YOU WILL:

- Know fundamental concepts and techniques of Convolutional Neural Network.
- Gain a broad understanding of image data.
- Know how to pre-process/clean the data using different data preprocessingtechniques.
- Know how to build a web application using the Flask framework.

PURPOSE OF PROJECT:

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. 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 onthe fruits like (Sugar, Fibre, Protein, Calories, etc.).

TECHNOLOGIES USED:

Python, CNN, IBM Cloud, IBM Watson, IBM Cloudant DB, Deep Learning, PythonFlask