Project Design Phase-I

AI-Powered Nutrition Analyzer for Fitness Enthusiasts

Solution Architecture

| Team ID	PNT2022TMID51044
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Project Name	AI-Powered Nutrition Analyzer for Fitness Enthusiasts

- Food is vital to human existence and has been a topic of discussion at several medical meetings. These days, additional chances exist to assist people in understanding their daily eating habits, examining nutrition patterns, and maintaining a balanced diet thanks to new dietary evaluation and nutrition analysis technologies. The technique of figuring out a food's nutritional makeup is called nutritional analysis. It is an essential component of analytical chemistry that offers details on the chemical make-up, processing, quality assurance, and contamination of food.

- Building a model that can be used to categorize fruits according to their many attributes, such as color, shape, and texture, is the project's major goal. Here, users may take pictures of various fruits, which are subsequently uploaded to a trained algorithm for analysis. The algorithm examines the picture and determines the nutritious content of fruits such (Sugar, Fiber, Protein, Calories, etc.).

Solution architecture is a multi-step procedure that connects many activities.

The disconnect between technological solutions and commercial challenges. Its objectives are

- Find the finest technological solution to address current company issues.
- Describe the makeup, traits, personality, and other features of the software for project participants.
- Define the solution's requirements, development stages, and features.
- Provide guidelines for the definition, management, and implementation of the solution and was given.

Solution Architecture

Prediction

Model

Input

Evolutio

Algorith

Train

Data processi

Test data

Image data
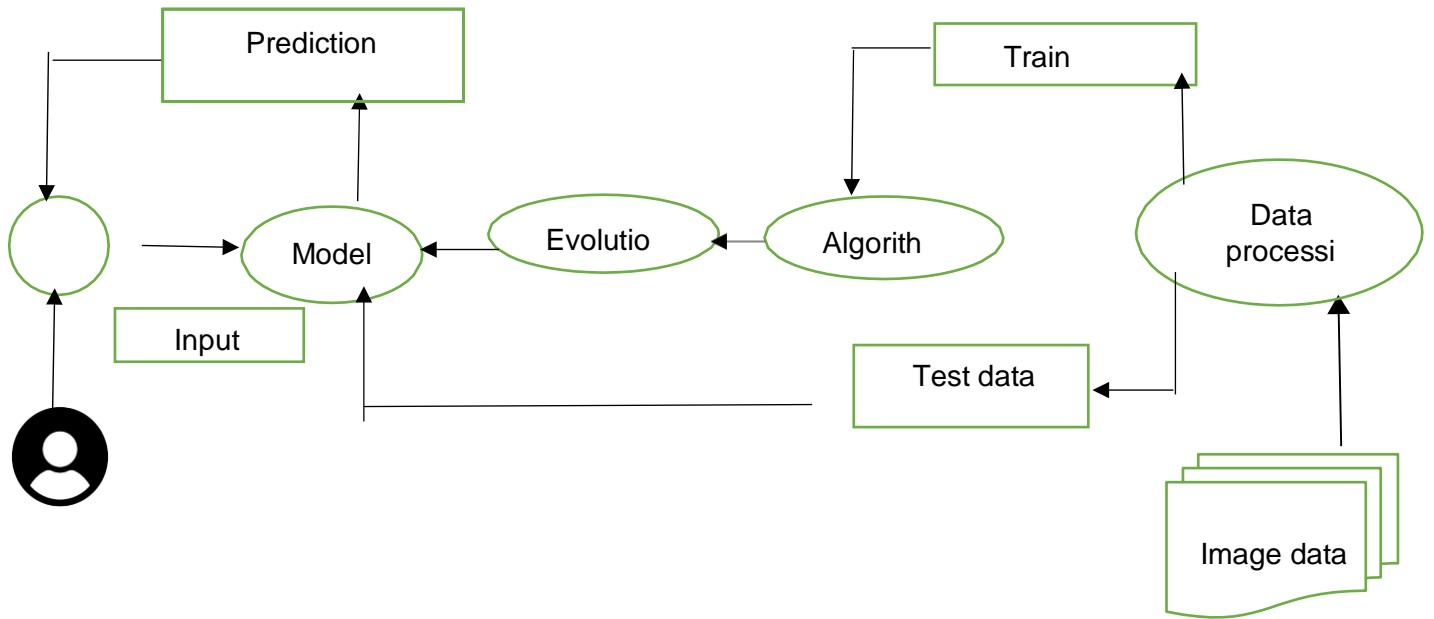
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