

Project Flow

Team id	PNT2002TMID00123
Project title	Ai-Powered Nutrition Analyzer For Fitness Enthusiasts

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Fertilizer recommendation system for plant diseases prediction

Agriculture is the most important sector in today's life. Most plants are affected by a wide variety of bacterial and fungal diseases. Diseases on plants placed a major constraint on the production and a major threat to food security. Hence, early and accurate identification of plant diseases is essential to ensure high quantity and best quality. In recent years, the number of diseases on plants and the degree of harm caused has increased due to the variation in pathogen varieties, changes in cultivation methods, and inadequate plant protection techniques.

An automated system is introduced to identify different diseases on plants by checking the symptoms shown on the leaves of the plant. Deep learning techniques are used to identify the diseases and suggest the precautions that can be taken for those diseases.

Project flow:

Download the dataset.

Classify the dataset into train and test sets.

Add the neural network layers.

Load the trained images and fit the model.

Test the model.

Save the model and its dependencies.

Build a Web application using a flask that integrates with the model built.