AgriVision: Al-Powered Farming

AgriVision is an AI-powered mobile app. It provides smart solutions. It uses real-time data and AI. It is designed for modern agriculture.

It supports local languages for accessibility. It works online & offline. AgriVision helps farmers make data-driven decisions. It results in healthier crops and higher yields.

By Pappu Meghana



AgriVision Tech Stack

CNN for Classification

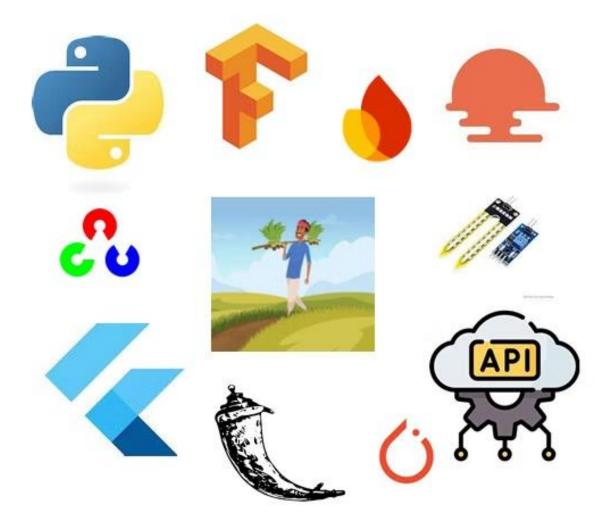
MobileNetV2 extracts image features. An output softmax layer classifies. OpenCV handles preprocessing.

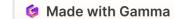
Random Forest

Analyzes soil features (N, K, P, pH). It checks weather conditions. Then it recommends crops.

Cloud & API

Google Cloud provides cloud storage. Cloud Translation
API translates. Soilgrids API collects soil data.
Agromonitoring and OpenWeatherMap offer weather data.





AgriVision App Flow

1

Login Page

Provides secure user authentication.

2

Home Page

Dashboard displays weather and soil data.

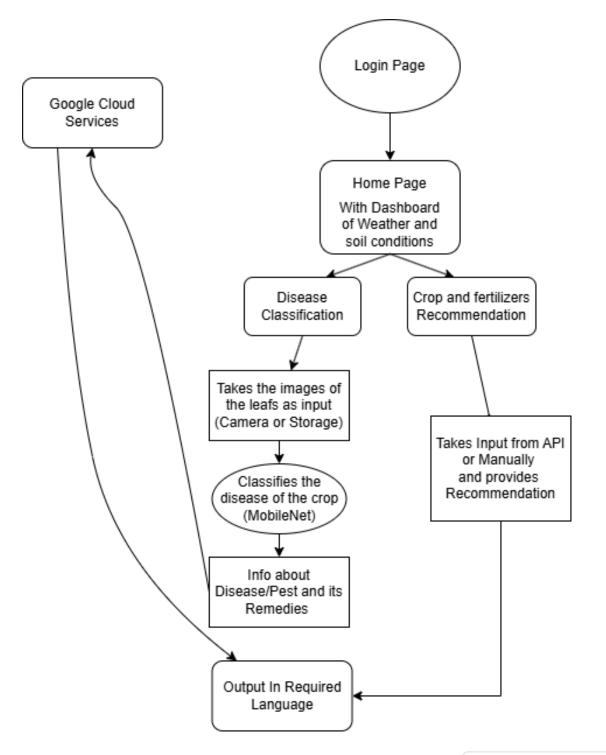
Disease Classification

Uses MobileNet to detect diseases. It provides disease info and remedies. Output is in the required language.

4

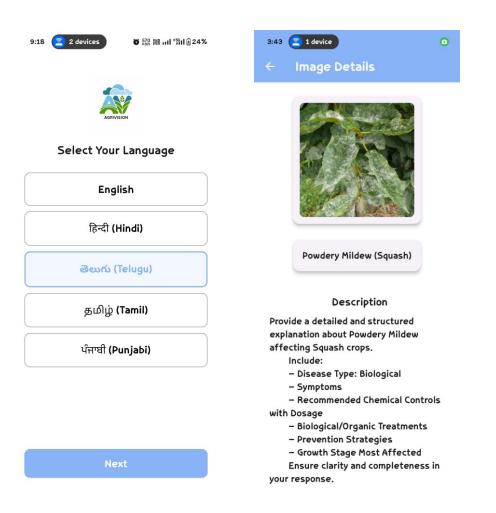
Crop & Fertilizer

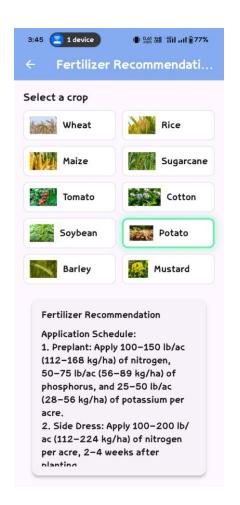
Takes input from API or manual entry. It provides smart recommendations.

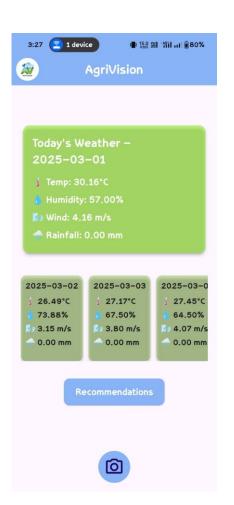


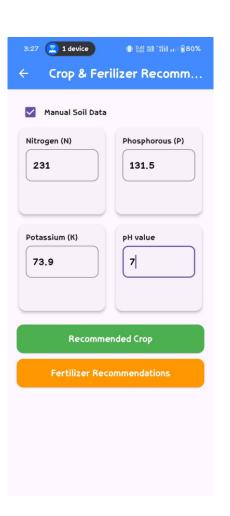


AgriVision App Interface









The AgriVision app offers an intuitive interface. Farmers can easily access key data. They can use powerful AI features. They can improve crop management.

