Disease Diagnosis: Nuru for infield Pest

Crop Care in Your Pocket: Nuru App, Your Farming Companion

PlantVillage Nuru is an innovative smartphone app that uses artificial intelligence for offline diagnosis of crop damage by diseases and pests. It offers instant diagnoses and guidance on disease and pest control, empowering farmers to enhance agricultural productivity and food security.









This technology is TAAT1 validated.

Gender assessment

Problem

- Farmers often struggle to identify crop damage caused by diseases and pests, which can lead to reduced crop yields and economic losses.
- Many farmers lack access to expert advice and information on how to manage and control crop diseases and pests effectively.
- Language barriers can make it challenging for farmers to access relevant information and guidance on crop protection.

Solution

Climate impact

 PlantVillage Nuru offers instant offline diagnosis of crop damage symptoms caused by diseases and pests using artificial intelligence and machine learning.

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- The app connects users to a network of nearby users and provides information on how to control the identified diseases and pests, offering expert advice and solutions.
- The app is available in multiple languages, making it accessible to a wider range of users and overcoming language barriers.
- The app employs machine learning and object recognition, allowing it to continuously improve and enhance its accuracy in diagnosing crop issues.

Key points to design your project

PlantVillage Nuru is a smartphone app using AI for offline crop damage diagnosis. It provides instant diagnoses and pest management guidance, aiding farmers in improving productivity and food security. To integrate it into a project:

- Raise awareness and provide training to farmers and extension officers.
- Build local capacity for technology use.
- Promote the app through various channels.
- Collaborate with relevant stakeholders.
- Use the app freely.
- It synergizes with SeedTracker for seed registration and certification, expanding its impact beyond Nigeria
 and Tanzania.

∏IP

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