

Presentation - (remake of 2024)

Farm Friend

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Team



Arnav Chhajed
Founder & Developer

Overview

- FarmFriend helps farmers make better decisions with simple AI tools for crop planning and disease detection. It's made to support the people who feed us, right when they need it most.
- UN SDGs: No Poverty (SDG 1), Zero Hunger (SDG 2), Climate Action (SDG 13).



Inspired by the UN SDGs

Why I chose this issue & my motivation to Solve it

In many rural areas, especially where I'm from, farmers face unpredictable variables, crop diseases, and **limited access to reliable guidance**.

These challenges often lead to poor yields, financial stress, and in **unfortunate cases, farmer suicides**.

Inspired by **SDGs 1, 2, and 13**, I wanted to build something that could help reduce poverty and hunger while supporting sustainable agriculture.

This app offers simple, **AI-powered suggestions** tailored to farmers' needs—helping them make better crop decisions.

It's to give back to those I've seen work incredibly hard, with very little support, and try to bring hope where it's needed the most.

Limits & Considerations

While building the app, I wanted to make sure it was **actually useful for farmers and easy to understand.**

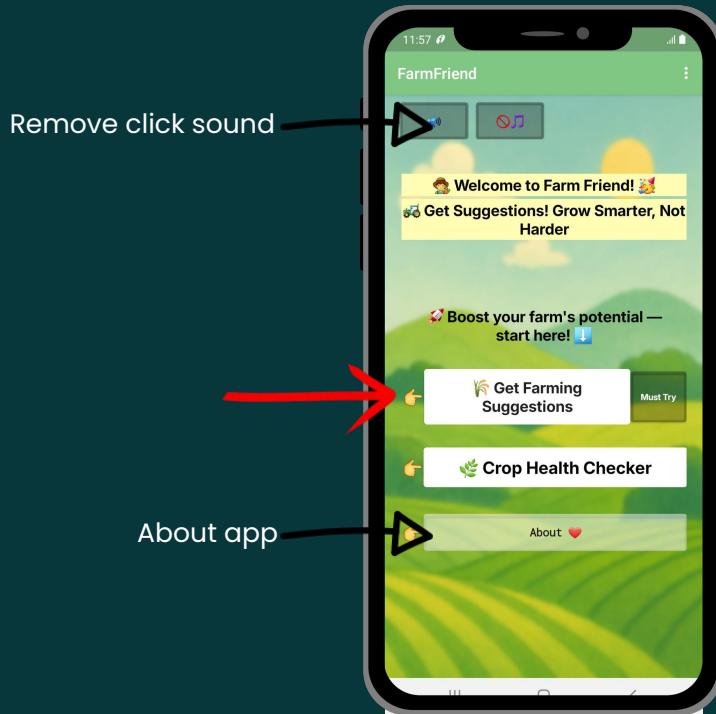
One big limitation is that the soil and crop health model works perfectly with clear photos - but images taken in bad lighting, odd angles, or older phones can affect accuracy.

There may be some bias, as the model was trained on a large but not all-encompassing dataset, so it might not perform equally well across all types/regions.

I also didn't want people to depend only on the app and ignore expert advice, so I made sure it **feels like a helpful tool, not a final answer** to avoid over-reliance. My focus was to keep the app honest, safe to use, and fair for everyone.

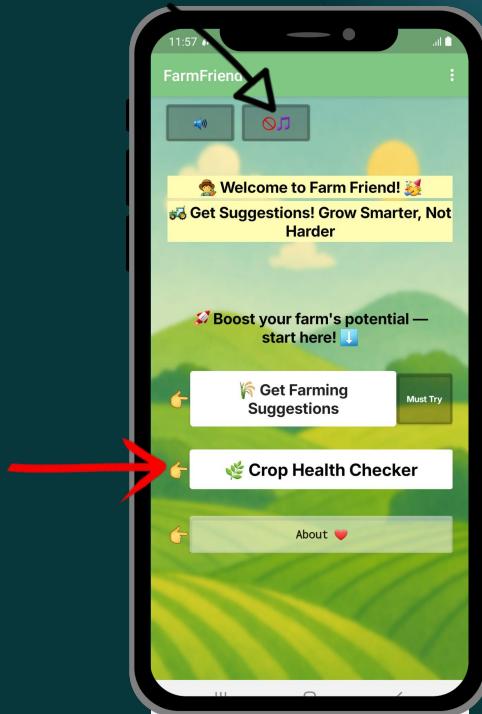


Usage



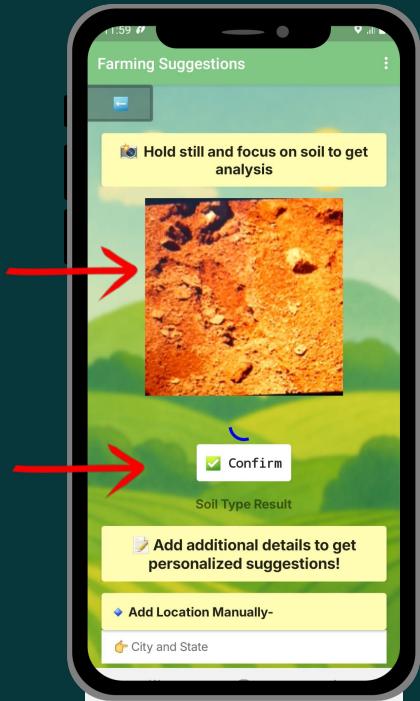
Recommended Step 1: Click to use 1st feature

Music toggle

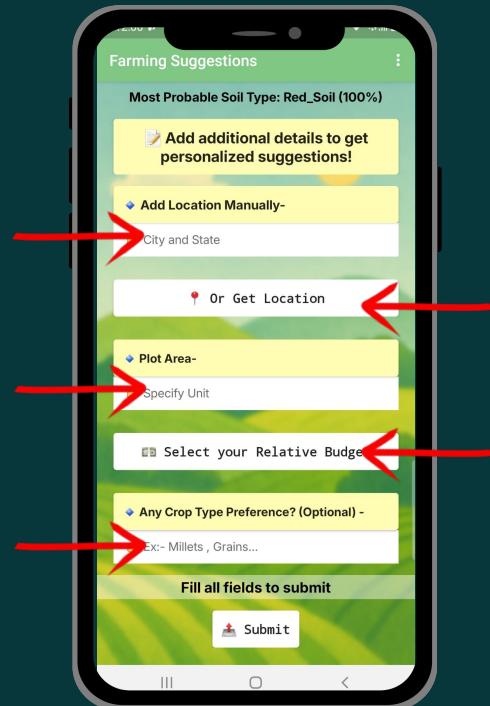


Alternative Step 1: Click to use 2nd feature

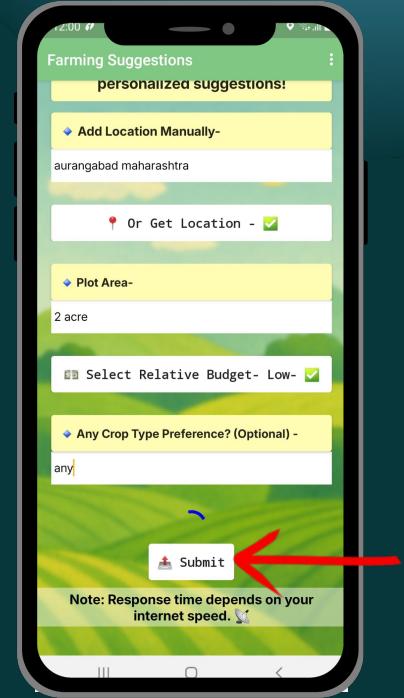
Usage



Step 2: For suggestions properly focus on soil (no other things) and click on confirm

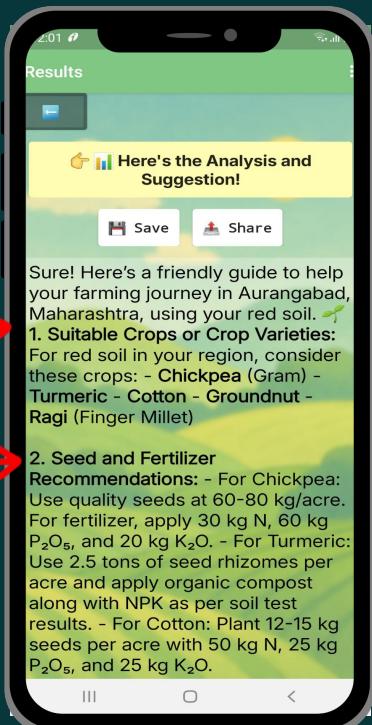


Step 3: Fill in all the details (imp)

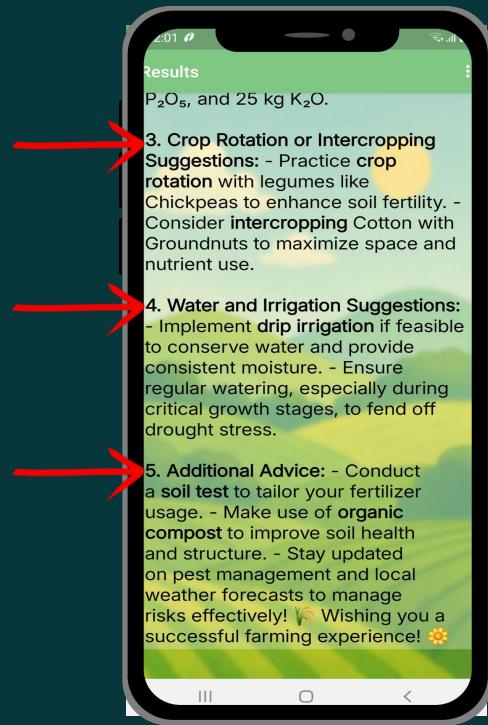


Step 4: Click on submit and wait for response

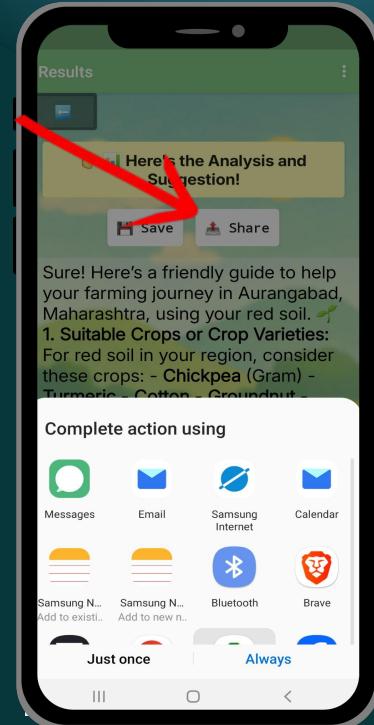
Usage



Step 5: Get suitable crops, seeds, fertilizer...

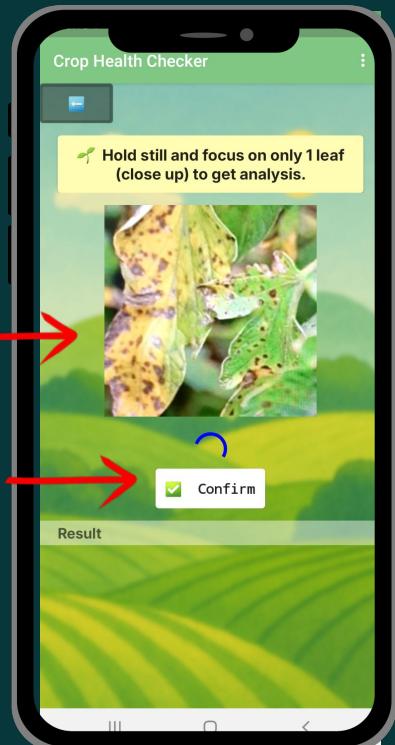


Step 5: ...crop rotation/other sustainable methods, irrigation and additional advice and suggestions

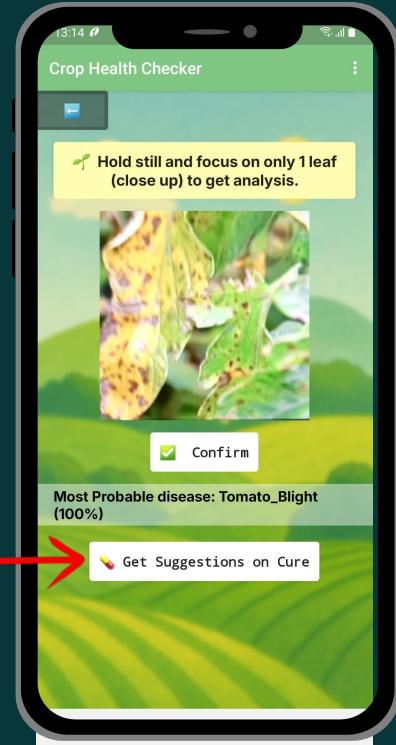


Step 6: Save or share for further use or expert consultation.

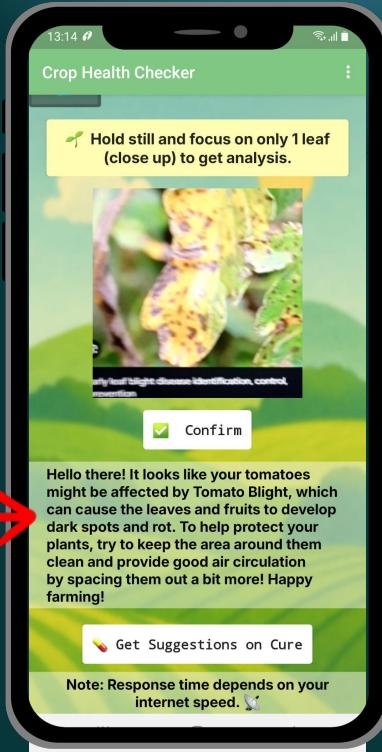
Usage



Alternative Step 2: For cure suggestions properly focus on only 1 leaf and click on confirm



Alternative Step 3: Click on Get suggestions on cure



Alternative Step 4: Only friendly suggestions with no risk, read and try them to improve crop health.

Acknowledgements



- **Parents:** Gave constant feedback and encouragement on usability and UI.
- **Local Farmer(Sattar Kaka):** Shared what they and other locals face, which shaped the app's features and add practicality.
- **Friends:** Helped with app testing and gave honest feedback.



Thank you!