

Kissan Bot

Team Members:

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Objectives

The following are the main objectives set for the chatbot:

1. To provide the latest mandi rates for the input crop or vegetables of the region the farmer wants.
2. To provide information on the detected disease and weed from crop images.
3. To provide recommended treatment information for the identified disease and weed.
4. To provide information on weather for the input city or village
5. To provide multilingual support (like Hindi, English, Punjabi, etc.)
6. To provide voice support(speech as input to query) in the farmers' native language.
7. The responses would also be spoken to farmers (text to speech) to help those who don't know how to read.
7. To guide farmers in irrigation scheduling through the developed in-house system (these can be extended to notify farmers through in-app notifications or scheduled reminders.)
8. To provide information about various schemes available to farmers.

To implement this we will be providing a standalone android app built using Flutter, which would be supported by most Android devices and can further be extended to provide various info to farmers through different sections.

Further, we would be implementing a telegram and an embedded web-based(that could be integrated into any website) version of the same bot.

For ASR, Translation stuff, we would use Microfost AZURE, which provides excellent accuracy for regional languages.

Planned Tech Stack:

1. Flutter
2. Node
3. Flask
4. Azure
5. Firebase