TerraBot the intelligent farmbot.

The Terrabot is created in order to recommend crop types and cultivation practices for the selected crop based on interactions with the farmer and sensor inputs.

The crop recommendation is based on different parameters including:

1. Geographical region
2. Soil type
3. Moisture levels
4. Rainfall received
5. Altitude
6. Irrigation facilities

Once the crop is selected, the crop specific cultivation practices are provided including:

1. Ploughing methods
2. Sowing date
3. Irrigation schedule
4. Weeding frequency
5. Pesticide usage
6. Harvest time

Disease identification is done through image recognition and the necessary steps are taken to control or eliminate the pests.

TerraBot provides real time solutions to the farmer and can be done from anywhere in the world using cloud technology.

The idea will be implemented with the help of IBM Watson services, microcontrollers and the necessary sensors.