

Idea /Approach Details

Ministry /Organisation Name - CDK Global

Problem Statement - Helping the farmers in terms of Crop suggestion, precautions based on met department forecast of rainfall / weather, potential pest attacks, weather warnings etc.

Team Name - GoVoid

Team Leader Name - Himansh Sharma

College Code -

Idea and Prototype-

To develop an integrated information system (piloted as Mobile App) that provides details to farmers - suggesting crops based on forecasted weather patterns that can impact their crops, possible(predicted) pest attacks and weather warnings . Steps for high yield that are specific to farmer based on their local/regional terrain, weather scenario, rather than generic guidance thus helping the farmer to be well prepared of pest attacks. This mobile app aims to reach out the information to the

farmers despite of digital divide via sms messages with one time login in the app only.

Technology stack-

Using various data sets and user location along with machine learning algorithms and predictive analysis models to provide farmers with prescriptive guidance.

- 1. Tensorflow(keras)**
- 2. Android studio**
- 3. Firebase**
- 4. Neural network(deep learning)**
- 5. Application Programming Interface**

Use cases -

This product can potentially be used in benefitting farmers for increasing their farming practices and high yield from predictive measures of crops suggested ,weather warnings and pest attacks .It connects farmers to pesticide firms, Govt. Agencies helping farmers .

Dependencies/Show Stopper

Digital divide proves to be a big show stopper.

Internet is rapidly becoming a primary source of knowledge .But not every one of India's 118 million farmers is connected to the Internet – which means they can struggle to solve daily agricultural challenges. With no way to access to information on things like planting, growing and precautions , farmers in India simply suffer a lot . They don't have smartphones to ask App what to do.