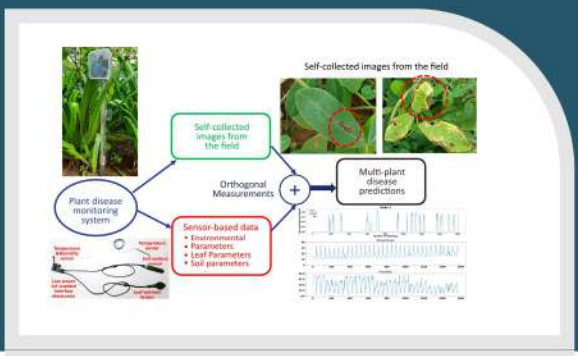
IITI DRISHTI CPS Foundation

TECHNOLOGY DEVELOPMENT PROGRAM

AgriTech



PREDICT

Precision disease detection using integrated Orthogonal measurements and computerized Techniques

Issue Being Addressed

- Orthogonal measurements (sensors + images) for accurate plant disease predictions

Key Feature of The Technology/Product /App Which Is Being Developed

- In-house developed cost-effective technology
- AI/ML model for multi-crop and multi-diseases
- Rapid control measures

CPS Relevance

- Model designing using artificial intelligence and machine learning
- Take inputs from the sensors and image dataset testing and deploy AI/ML model on a cloud server

Impact & Benfits

- Disease detection of various crops that will improve crop quality
- Improves the soil quality
- Reduce the use of low chemicals which leads to improvement of soil quality

Team

- **Pooja Garg,** PhD scholar
- **PI: Dr Vinay S Palaparthy,** Dhirubhai Ambani Institute of Information and Communication Technology
- **CHANAKYA Ph.D. Fellowship**

Targeted Customers & End Users

- Farmers
- Food Industries
- FSSAI

Commercialization Status

- Prototype has been developed for mango plant and and deploying for the improvisation of the technology for other plants