

**TEAM NAME:HUSTEHIVE**

**TEAM MEMBERS:**

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**THEME:ENVIRONMENMT & SUSTAINABILITY**

**TITLE:THE SUSTAINABILITY GAP IN MODERN  
AGRICULTURE**

## **PROBLEM STATEMENT:**

Without real-time crop health insights and climate-aware decision support, farmers suffer from crop losses, excessive chemical use, and inefficient resource consumption. Long-term agricultural sustainability is threatened by traditional farming methods, which also increase food waste, environmental harm, and carbon emissions.



## PROPOSED SOLUTION:

An AI-driven smart farming platform that uses real-time data to optimize resource usage, provide eco-friendly treatment recommendations, and instantly identify crop diseases.

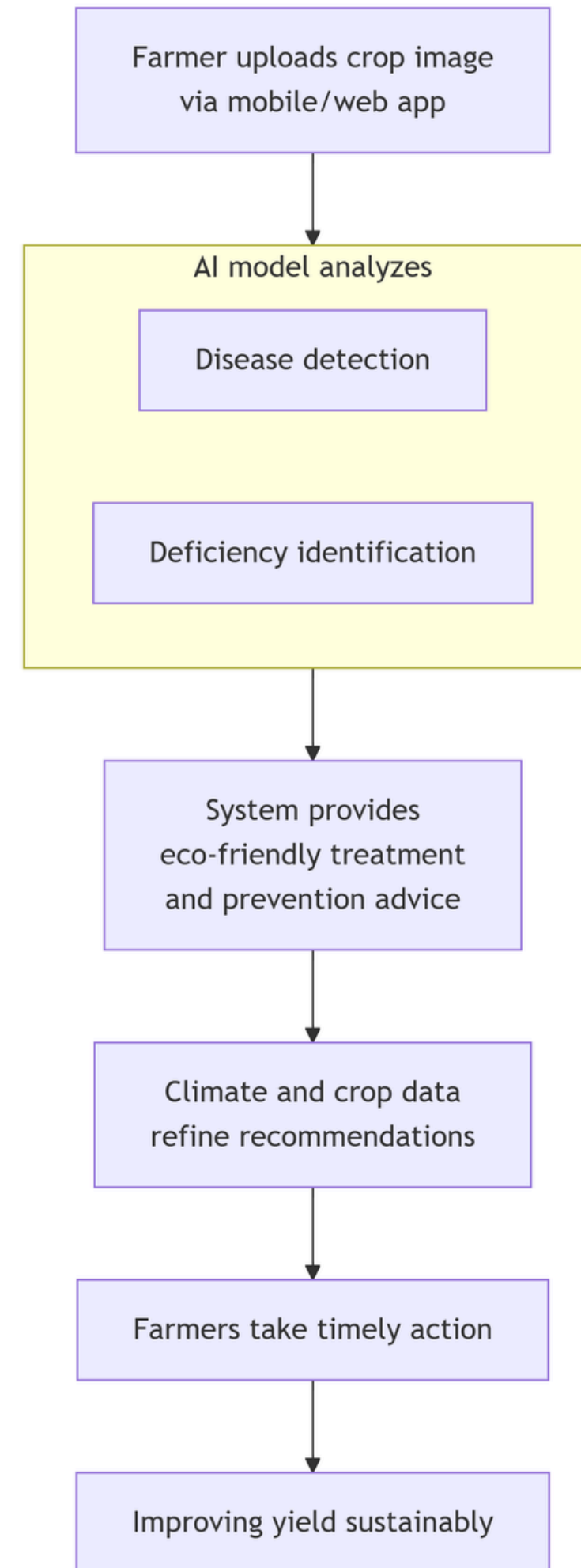
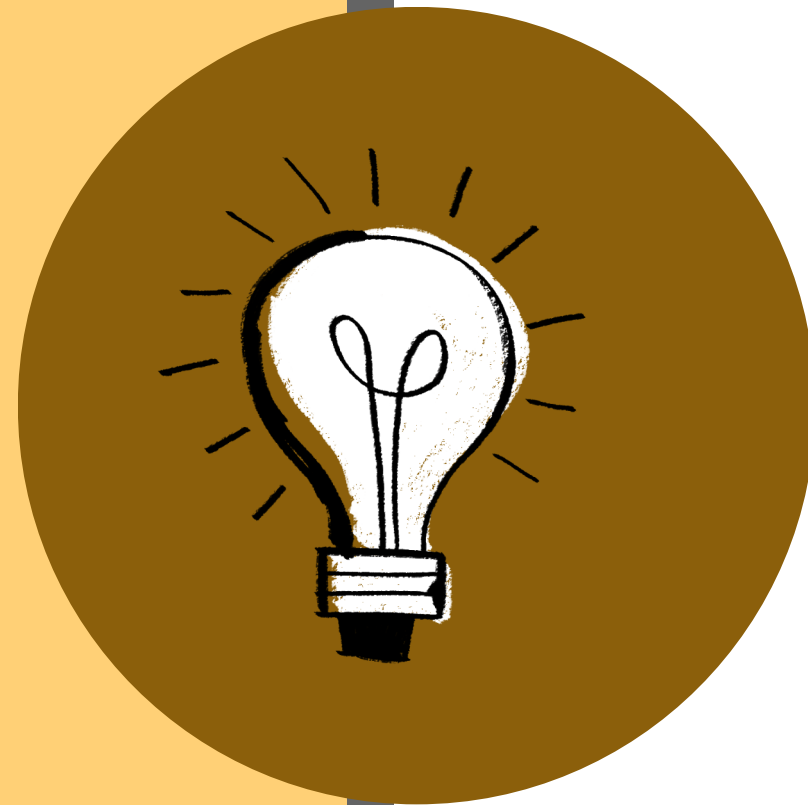
### Important Features

- AI-based image-based crop disease detection
- Recommendations for low-chemical, sustainable treatment
- Climate-conscious guidance for preventive agriculture
- A user-friendly interface that prioritizes farmers

# TOOLS & TECHNOLOGIES

- Predicting diseases using artificial intelligence and machine learning.
- Image-based crop analysis using computer vision (CNNs).
- Scalable data processing and storage through cloud computing.
- APIs: Integration of weather and agricultural data.

# WORKFLOW



# Expected Impact

- Reduction in crop losses and food waste
- Lower chemical and water usage
- Reduced environmental and carbon impact
- Improved farmer income and productivity
- Supports circular and sustainable food systems

**THANK  
YOU**