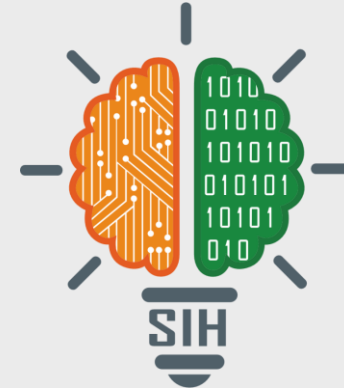


SMART INDIA HACKATHON 2024



Introduction

- **Problem Statement ID :** 1638
- **Problem Statement Title:** AI-Driven Crop Disease Prediction and Management System
- **Theme:** Agriculture, FoodTech & Rural Development
- **PS Category:** Software
- **Team ID-**
- **Team Name –** AgroVision



❖ Detailed explanation of the proposed solution

- AI increases the accuracy level of detecting the deficiency in the plant.
- Chat box help the farmer to share their problem and acquire the better solution.
- Finance will store the seasonal records of farmer and help in better understanding of there expenditure and profit earn.

❖ Innovation And Uniqueness Are:-

- We Have create AI Detector Tool which have detect the problems of the plants such as (wheat, Rice, And Some other kind of Herbs etc.) It Also helps for predict the upcoming plant disease which also help to protect the crop fields.
- We have created a platform for direct connection from farmer to consumer without interference of any broker. It improve the farmers life quality and security.

- ❖ **Technologies to be used are:-** AI-Driven Decision Support Systems, Natural Language Processing (NLP), and the languages are:-

❖ **HTML**



CSS



React



JavaScript



Python



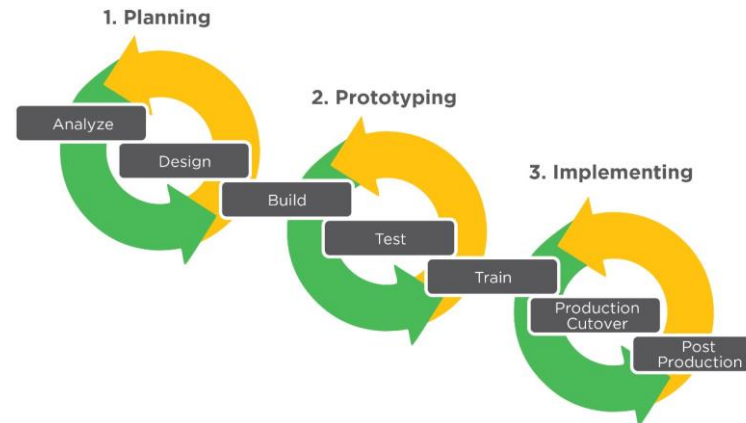
SQL



PHP



- ❖ **Methodology and process for implementation:-**



A website for farmers to solve the crop fields problem in real life with the help of Programming languages, Database, Frameworks and Inbuilt Artificial Intelligence.

➤ Analysis of the feasibility of the idea:-

- **Farmers:** Small-scale to large-scale farmers in various regions.
- **Consumers:** Individuals interested in sustainable food and local produce.
- **User-friendly Interface:** Easy navigation and intuitive design.

➤ Potential challenges and risks:-

- **Technical Issues:** Ensure website stability and reliability.
- **Competition:** Research existing platforms and differentiate your offerings.
- **Data Privacy:** Implement strong security measures to protect user data.

➤ Strategies for overcoming these challenges:-

- The strategy is that farmers are not able to detect the damage crop in the initial stage, then they take advice from their consultant, there is no proper expertise whom they consult.
- Farmers used to tell in their own way that there is nitrogen , iron deficiency in the plant, but they were not able to tell things accurately.
- AI will give us accurate solutions and whenever we scan that particular plant then it tell us what is the exact problem, like if there is iron , zinc deficiency in the plant.
- So this will ensure that farmers will not have to consult anyone and they will not have to suffer.

➤ **Potential Impact On The Target Audience Is:-**

- Enhanced Decision-Making
- Increased Efficiency
- User Experience

➤ **Benefits Of The Social, Economic, Environmental Is:-**

■ **Social Benefits-**

- Educational Aspect
- Technological Development

■ **Economic Benefits-**

- Increased Productivity
- Social Farming
- Market Access

■ **Environmental Benefits:-**

- Resource Efficiency
- Waste Reduction
- Lower Carbon Footprint
- Improve Crop Health

RESEARCH AND REFERENCES

We are researching on the crop disease and soil problems which impact on the plant. and On field data analysis and using some ai tools, website, & some images to train the inbuilt website AI. Which helps to built our website fast and responsive.

TOOLS & LINKS ARE:-

