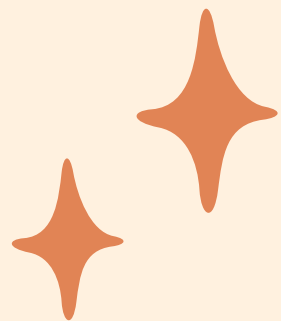


ECO-DETECT



Presented by :
Tandrima Singha
Ritika garg

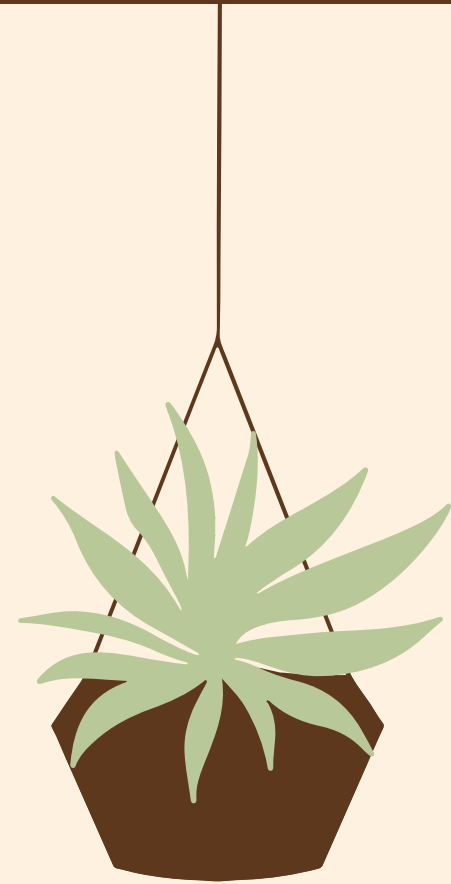


PROJECT OVERVIEW

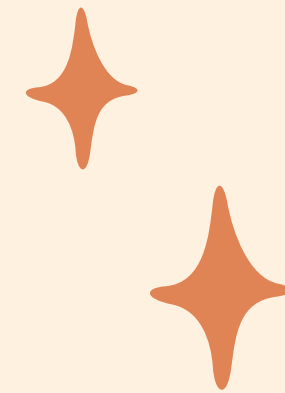
We have thought about two different types of problems:

1. **Waste management** is a critical aspect of environmental sustainability. With the increasing amount of global waste, classifying waste materials into different categories is critical for effective waste management, resource conservation, and environmental protection.
2. Secondly, **Plant Disease Detection** – Is critical for ensuring food security and sustainable agriculture. By detecting plant diseases early, farmers can take appropriate actions to manage and prevent the spread of diseases, reducing crop losses and promoting sustainable farming practices.





**Let's check out
the scoop on the plan!**



OUR SOLUTION

One strategy for **waste management** is the classification of waste materials into different categories like **metal, plastic, glass, and compost**. The classification of these materials is crucial for several reasons. Firstly, it facilitates recycling efforts by enabling efficient sorting and processing of waste materials. Recycling materials like metal and glass conserves natural resources and reduces the need for new raw materials. Proper disposal of waste materials can also reduce their environmental impact. For example, plastic waste can take hundreds of years to decompose and can harm wildlife and ecosystems.



OUR SOLUTION

Our **plant disease detection** service provides a wide range of services to users, making it an essential tool for **farmers**, gardeners, and anyone interested in plant health. One of the most significant benefits of these apps is disease identification. Users can **upload images** of their plants or crops to the web app and receive an identification of the disease affecting their plants. This feature can help users identify diseases early on and take appropriate actions to manage and prevent their spread.



RESEARCH METHODOLOGY



1st

Collected **image dataset** from Kaggle for both the problems



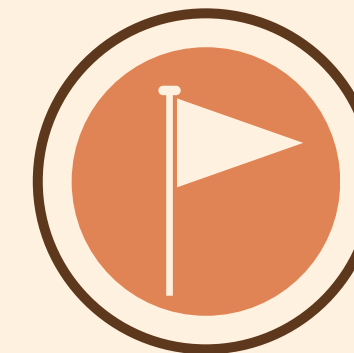
2nd

Used **CNN model** to detect the disease as well as classify metal, glass, compost & plastic.



3rd

Used Flask in the backend and HTML, CSS, Js & Bootstrap in the frontend



4th

Connected the frontend & the backend to create a complete website.

Tech Stack Used





Links:



GitHub Link:

<https://github.com/Riti-garg2972/EcoDetect>

Youtube Video Link:

<https://youtu.be/1vXCL99bL90>



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"Think you know your planet?"

Test your eco IQ with our Environment Quiz!"

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We have developed two features

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We have developed two features

Nowadays, The importance of waste management and crop disease detection is increasing rapidly.



Waste Management

Sort your waste with ease, metal and glass for recycling please, compost and plastic in separate bins, let's keep our planet green!



Plant Disease Detection

"Revolutionize your crop management with our AI-powered plant disease detection system!"

[Services](#)

Check out the great services we offer



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for recycling please, compost and plastic in separate bins, let's keep our planet green!

our AI-powered plant disease detection system!"

Services

Check out the great services we offer



Waste Management

Here the users can check where the waste is a plastic, compost, metal and glass.



Crop Disease Detection

Farmers can know the disease of the plants and choose suitable pesticides.



QUIZ

Awesome Quiz Application

Time Left **07**

1. Which of the following is a common method of waste disposal that is environmentally unsustainable?

Landfills

Composting

Incineration

Recycling

1 of 10 Questions

WASTE CLASSIFICATION & PLANT DISEASE DETECTION

Waste Classification

Upload Your Image :

Choose File No file chosen

Submit

Your Prediction : *plastic*

Crop Disease Detection System

Upload the image of your plant you want to detect

Upload
Your
Image:

Choose File No file chosen

Submit



Your Prediction: *Diseased cotton plant - Attack of Leaf Sucking and Chewing Pests*

**A WARM
THANK YOU
TO ALL OF YOU!**

