

# sustAIn

## User Manual

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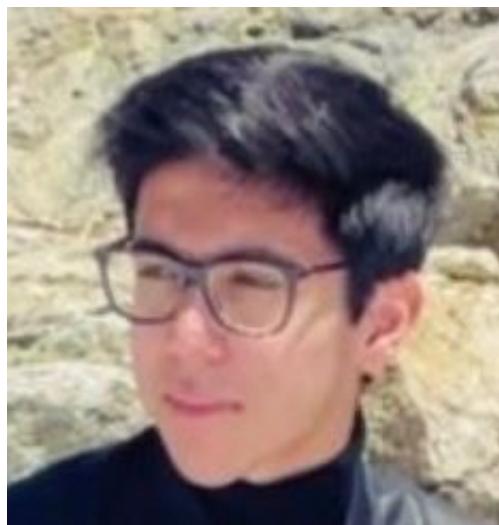
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# Acknowledgements

I would sincerely like to thank my parents who helped me find this course. Most importantly, Shivani ma'am without whom I wouldn't have been able to complete the project. Despite facing several errors, she was always very responsive and accommodating. Moreover, Dr. Khan for having to take a look at my project

# About Me..



**My name is Jain Jain. I am from Delhi. I am in 12<sup>th</sup> grade and studying Physics and Maths as my main subjects. I want to pursue electrical engineering in college. I have a keen interest in artificial intelligence.**

# About My Internship Journey with Clevered..

**My journey with Clevered as been fantastic. I have thoroughly enjoyed the program and has exceeded my expectations from what I read about it in the description. The faculty as been outstanding with Shivani ma'am always ready to help me out in any way required. I always had help whenever I needed and overall it has been a very good experience for me.**

# sustAIn

## sustAIn

Please upload the image using upload button

Upload Image (0)

Please click on submit button

Submit

sustAIn is a machine learning program which I have created especially to help categorize the waste between organic and inorganic. I feel this is a very important issue since in our day to day life we might not be differentiating the waste. By doing so we can increase the amount of waste which is recycled and decrease the waste ending up in landfills. Therefore, making our environment a much cleaner place.

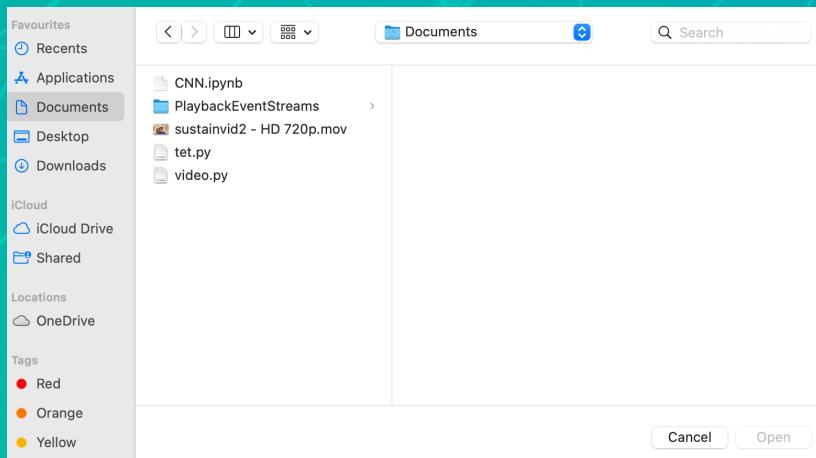
A faint, light-blue network graph serves as the background for the entire slide. It consists of numerous small, semi-transparent circular nodes connected by thin, light-blue lines forming a complex web of triangles and polygons.

# How do I use the App?

# Upload Image

Please upload the image using upload button

Upload Image (0)



This button will help us to upload the image which we want the program to categorize. It will open to your files and we can select the picture and press open on our desktops.

# Submit Image

**Please click on submit button**

Submit

This button will help us to submit the picture which we have uploaded for categorizing.

# Output: Inorganic

sustAIn

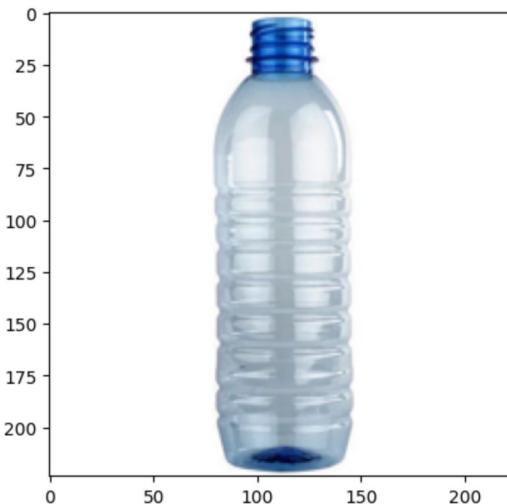
Please upload the image using upload button

Upload Image (1)

Please click on submit button

```
1/1 [=====] - ETA: 0s
1/1 [=====] - 0s 26ms/step
The predicted class is 1
Inorganic
Inorganic Waste Management Strategies
```

1. Reduce and Reuse: Minimize inorganic material usage and promote reuse.
2. Recycling Programs: Establish effective recycling programs to transform inorganic waste into new products.
3. Proper Disposal: Ensure safe disposal of hazardous inorganic waste through designated collection centers and specialized methods.
4. Composting: Utilize composting techniques for inorganic waste to enrich the soil and promote natural decomposition.
5. Education & Awareness: Raise public awareness and promote responsible inorganic waste management practices.



We can see that if I have inserted a picture of a plastic bottle, it is showing inorganic and the steps towards inorganic waste management

# Output: Organic

sustAIn

Please upload the image using upload button

Upload Image (1)



Please click on submit button

1/1 [=====] - ETA: 0s

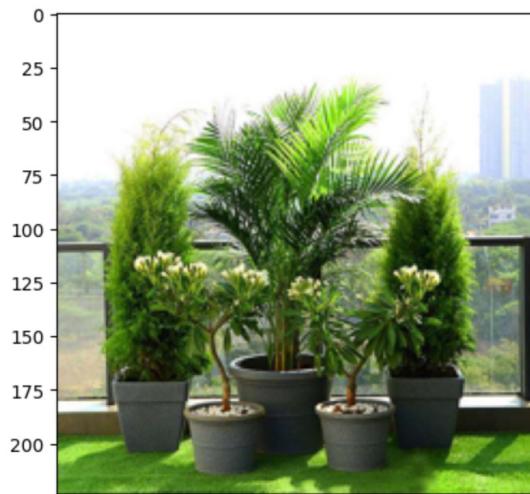
1/1 [=====] - 0s 18ms/step

The predicted class is 0

organic

#### Organic Waste Management Strategies

1. Composting: Convert organic waste into nutrient-rich compost through natural decomposition.
2. Anaerobic Digestion: Break down organic waste in a sealed container, producing biogas and nutrient-rich digestate.
3. Vermicomposting: Use worms to transform organic waste into nutrient-rich vermicompost.
4. Green Waste Recycling: Recycle grass clippings, leaves, and tree trimmings into mulch, compost, or wood chips.
5. Community and Municipal Composting: Participate in local composting programs to divert organic waste from landfills.
6. Industrial-Scale Recycling: Utilize advanced technologies for efficient processing and recycling of organic waste.



We can see that if I have inserted a picture of plants, it is showing organic and the steps towards organic waste management

# Contact Details

You can reach out to me via my email-  
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Thank you!