

WasteWise - Smart Waste Classifier

👤 Project Owner

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📌 About the Project

WasteWise is a simple AI-based web application that helps users identify whether a waste item is *Organic* or *Recyclable*. Users can upload or drag-and-drop an image of waste, and the system will analyze it using a machine learning model and provide the best classification and disposal method.

🛠️ How It Works

1. User uploads a waste image through the web interface.
2. The model classifies the image as either *Organic (O)* or *Recyclable (R)*.
3. The app displays the result, including:
 - Classification label (O or R)
 - Environmental impact bar
 - Suggested disposal method

The AI model is trained on a dataset with two folders: one for organic waste and one for recyclable plastic waste. The model is then converted to *TensorFlow.js* format and runs directly in the browser — no server needed.

💻 Technologies Used

- *HTML*
- *CSS*
- *JavaScript*
- *TensorFlow.js*
- *Python* (for training the model)
- *Tailwind CSS*


📁 How to Run

1. Open the index.html file in a browser.
2. Upload an image.
3. View the classification result and disposal suggestion.

 Contact

For any questions, reach out to:

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