

## # 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.

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### ## 🛠️ 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.

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### ## 💻 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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