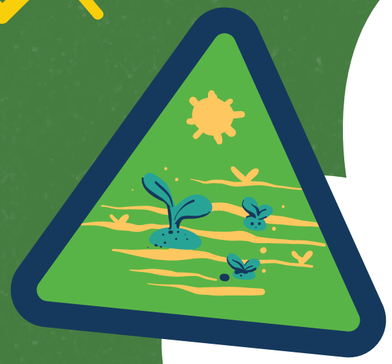
CLEAROUT

A reuse and recycle
AI Assistant
with Image Recognition



MEET OUR TEAM

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WHAT IS CLEAROUT?

ClearOut is an AI-powered app that helps people being sustainable by reusing, donating, or recycling their items.

Users can express interest for specific items or post pictures for things no longer wanted.

AI-powered agents do the matching*, and help with reusing or recycling suggestions if there is no match.

User

Hello AI, can you help me disposing properly of this item?

AI

Of course, I'd be happy to help! To provide you with the most accurate disposal instructions, could you please let me know which country you are in?

User

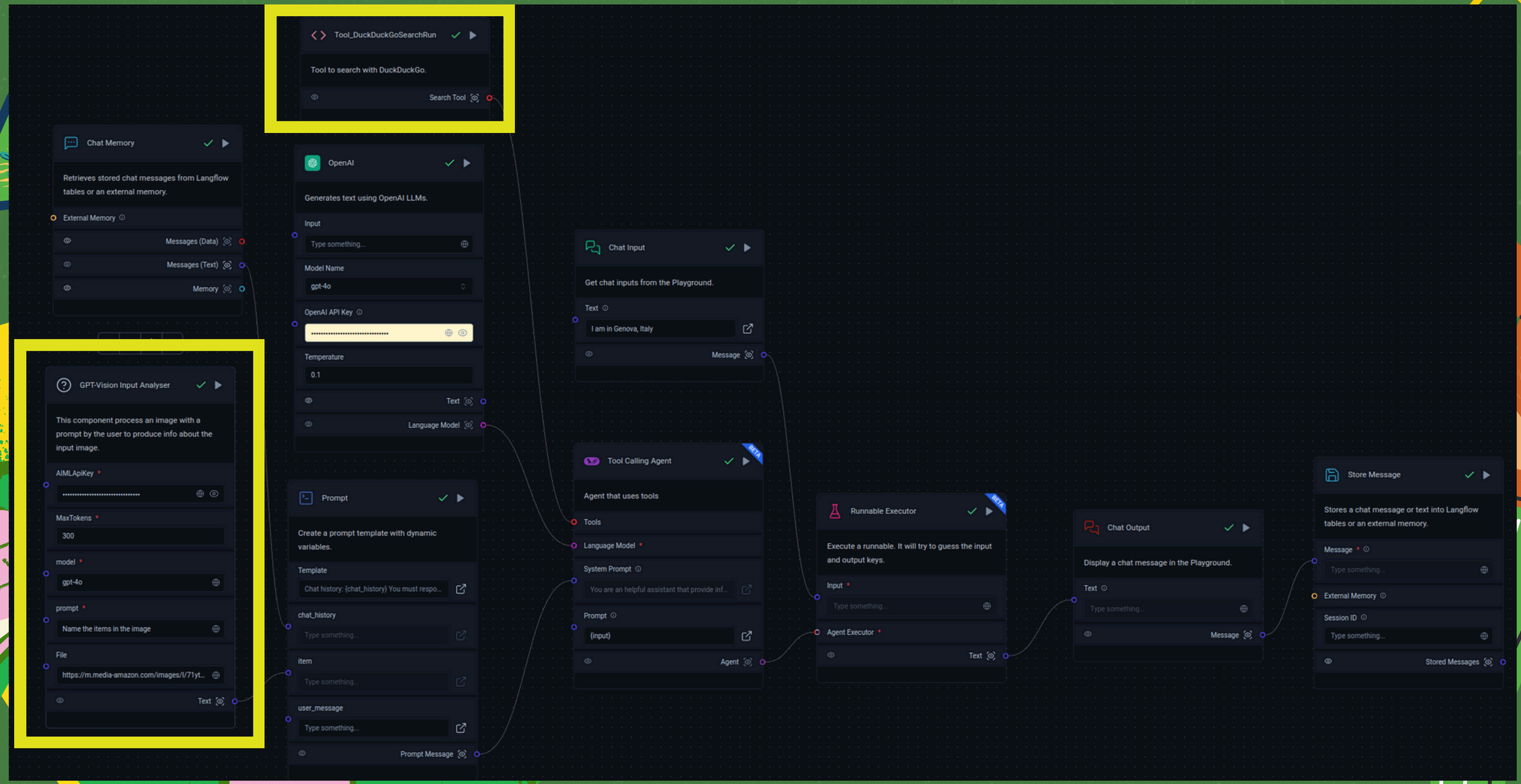
I am in Genova, Italy

AI

In Genova, Italy, here's how you can properly dispose of round disposable baking cups lined with aluminum foil:

1. **Separate Materials**: If possible, separate the paper part from the aluminum foil. This makes recycling easier and more efficient.

Send a message...


Tool_DuckDuckGoSearchRun
Tool to search with DuckDuckGo.
Search Tool
Chat Memory
Retrieves stored chat messages from Langflow tables or an external memory.
External Memory
Messages (Data)
Messages (Text)
Memory
OpenAI
Generates text using OpenAI LLMs.
Input
Type something...
Model Name
gpt-4o
OpenAI API Key
Temperature
0.1
Text
Language Model
Chat Input
Get chat inputs from the Playground.
Text
I am in Genova, Italy
Message
GPT-Vision Input Analyser
This component process an image with a prompt by the user to produce info about the input image.
AIMLApiKey *
MaxTokens *
300
model *
gpt-4o
prompt *
Name the items in the image
File
https://m.media-amazon.com/images/I/71yt...
Text
Prompt
Create a prompt template with dynamic variables.
Template
Chat history: {chat_history} You must respo...
chat_history
Type something...
item
Type something...
user_message
Type something...
Prompt Message
Tool Calling Agent
BETA
Agent that uses tools
Tools
Language Model *
System Prompt
You are an helpful assistant that provide inf...
Prompt
{input}
Agent
Runnable Executor
BETA
Execute a runnable. It will try to guess the input and output keys.
Input *
Type something...
Agent Executor *
Text
Chat Output
Display a chat message in the Playground.
Text
Type something...
Message
Store Message
Stores a chat message or text into Langflow tables or an external memory.
Message *
Type something...
External Memory
Session ID
Type something...
Stored Messages

TECHNOLOGIES USED

LangFlow

AI/ML API

Streamlit

GPT-4

Railway

Qdrant
[In progress]

DuckDuckGo

DataStax

COMPETITIVE ANALYSIS

These are some similar products working in the market

Recycle Coach

WasteApp

Olio

RECICLOS

freegle

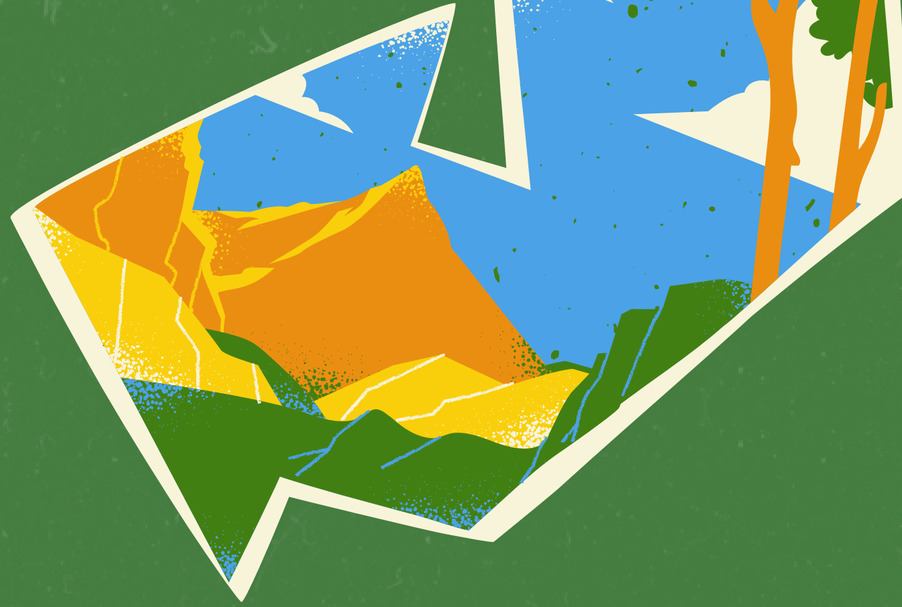
IMAGINED EARTH

TOO GOOD TO GO

reGAIN app

Garbage and Recycling Day

MARKET OPPORTUNITY



how is it different form the similar models in market

INTEGRATED MARKETPLACE

- Our project combines AI recycling advice with a marketplace powered by AI agents for item exchange, fostering reuse and reducing waste directly.

ADVANCED AI TECHNOLOGY

Using state-of-the-art AI agentic workflows and image recognition, our platform delivers personalized recycling solutions efficiently and effectively.

DEMO

CLEAROUT

THANK YOU
HAVE A GREAT DAY