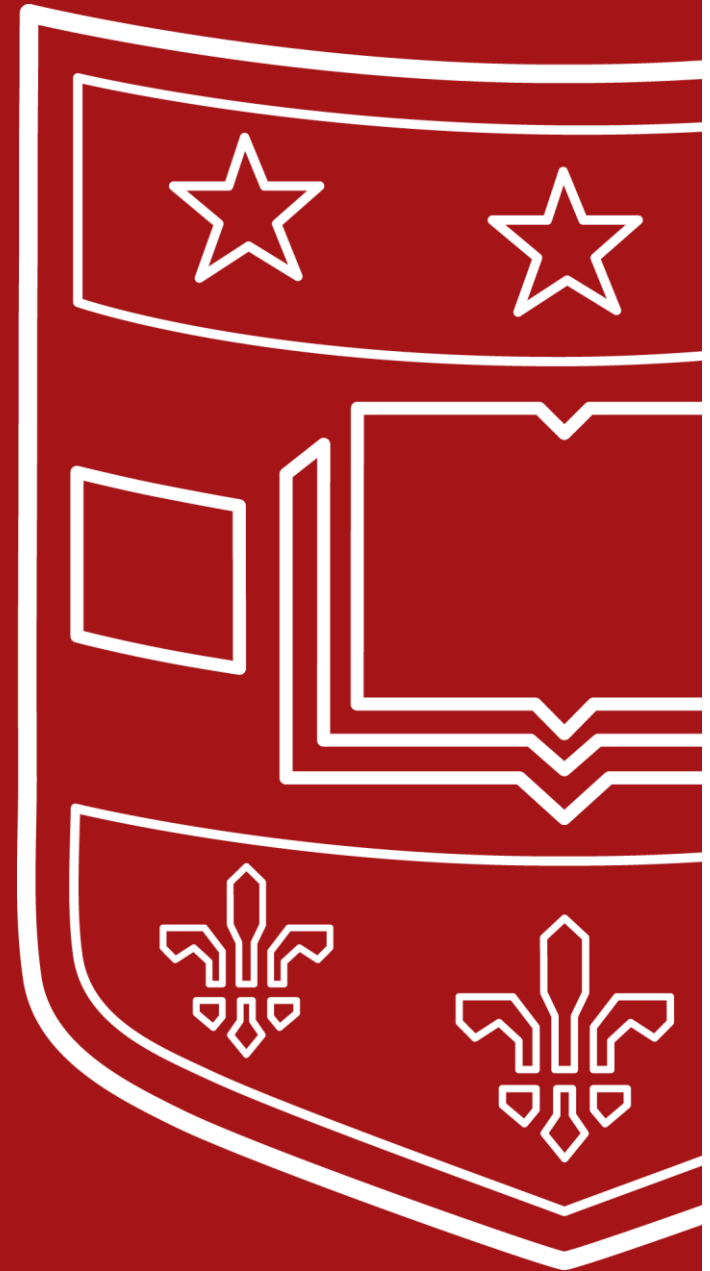


# Exploring Auto-GPT: A Summary of Talk at AI Interest Group

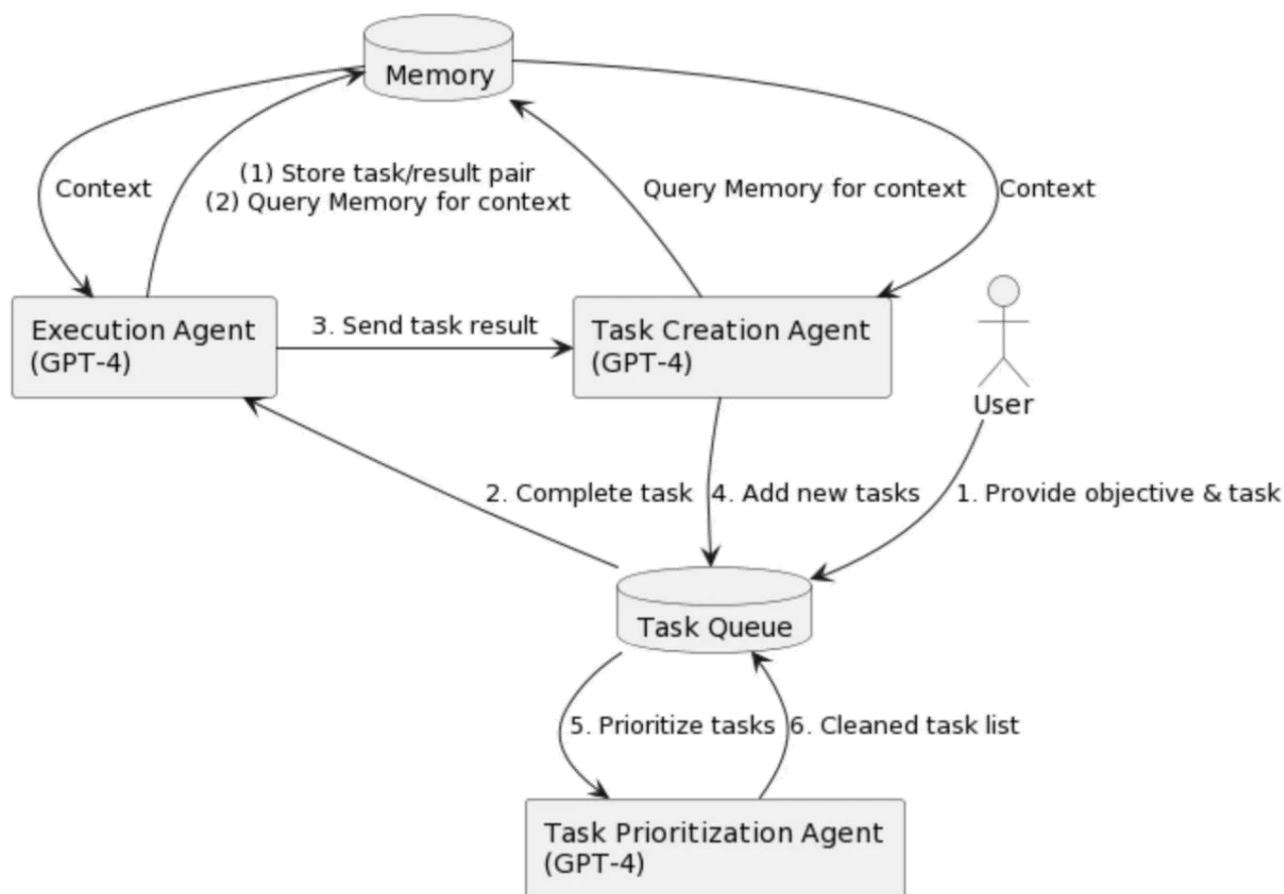
Yuyi Yang, MPH

July 22, 2023





# Introduction to Auto-GPT



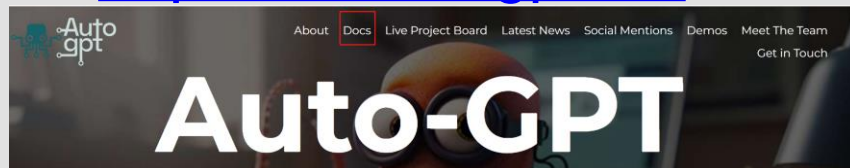
The core of AutoGPT's feedback loop



# Setting Up Auto-GPT




## 1. Find Documentation

- <https://news.agpt.co/>



- Or:  
<https://github.com/Significant-Gravitas/Auto-GPT>

### Documentation

-  [Setup](#)
-  Usage
-  Plugins

## 2. Prerequisites

- Download Docker and Git
  - <https://docs.docker.com/get-docker/>
  - <https://git-scm.com/downloads>
- Get an OpenAI API key
  - <https://platform.openai.com/account/api-keys>
  - Add payment method and set monthly spend limits

# Setting Up Auto-GPT



## 3. Set up with Git

- Create a new folder locally
- Follow 2 steps below: You can find them in the setup document

### ❗ Executing commands

To execute the given commands, open a CMD, Bash, or Powershell window.  
On Windows: press Win+X and pick *Terminal*, or Win+R and enter `cmd`

#### 1. Clone the repository

```
git clone -b stable https://github.com/Significant-Gravitas/Auto-GPT.git
```

#### 2. Navigate to the directory where you downloaded the repository

```
cd Auto-GPT
```

## 4. Rename .env.template

- Extract content in zip file “Auto-GPT”
- Draw into folder “Auto-GPT” and look for the file called “.env.template”
- Copy and paste, then rename it to “.env”
- Open “.env” in notepad

# Setting Up Auto-GPT



## 5. Open .env

- After opening “.env”, you should see something like this:

```
#####  
#####  
### AUTO-GPT - GENERAL SETTINGS  
#####  
#####  
  
## EXECUTE_LOCAL_COMMANDS - Allow local  
command execution (Default: False)  
## RESTRICT_TO_WORKSPACE - Restrict file  
operations to  
workspace ./auto_gpt_workspace (Default:  
True)
```

## 6. Paste OpenAI Key in .env

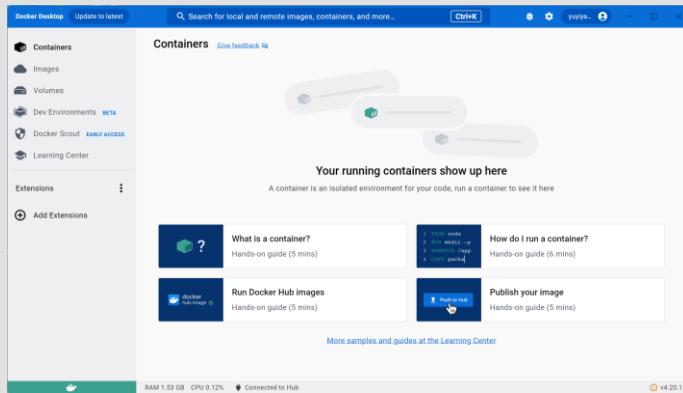
- Using AutoGPT, we need to give it access to the OpenAI API key
- Copy and paste your key after OPENAI\_API\_KEY=

```
## USE_AZURE - Use Azure OpenAI or not  
(Default: False)  
OPENAI_API_KEY=  
#####  
#####  
# TEMPERATURE=0  
# USE_AZURE=False  
# OPENAI_ORGANIZATION=your-openai-  
organization-key-if-applicable
```

# Running Auto-GPT with Docker

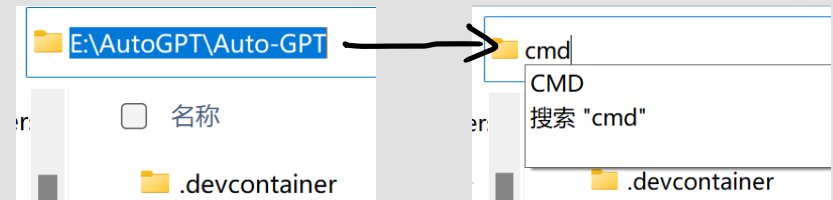


1. Open docker and minimize it

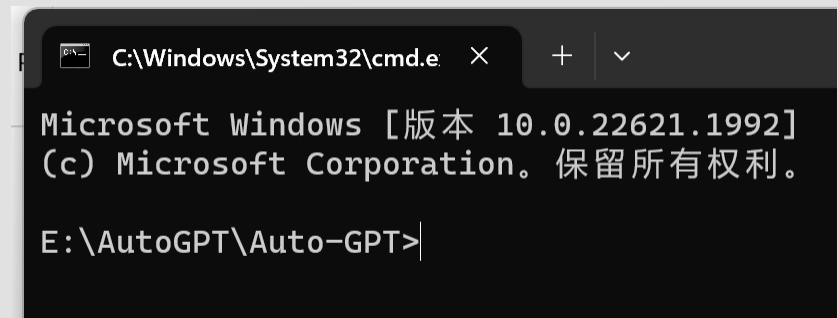
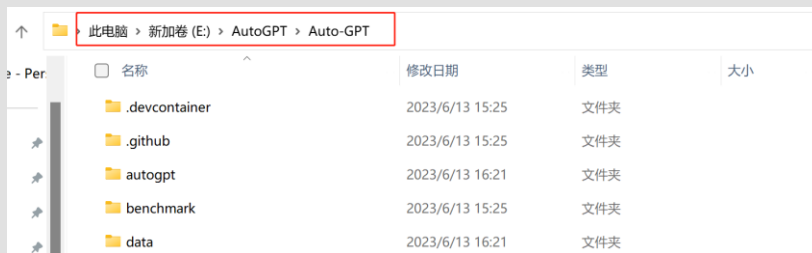


3. Double click address bar

- Input “cmd” to open the command prompt window



2. Find address bar



# Running Auto-GPT with Docker



## 4. Build the image

- Only needs to be executed once:
  - docker compose build auto-gpt

```
E:\AutoGPT\Auto-GPT>docker compose build auto-gpt
```

## 5. Run Auto-GPT

- Input:
  - docker compose run --rm auto-gpt

```
E:\AutoGPT\Auto-GPT>docker compose run --rm auto-gpt
```

5. If you see the following page, it means you have set up successfully

```
Welcome to Auto-GPT! run with '--help' for more information.
Create an AI-Assistant: input '--manual' to enter manual mode.
Asking user via keyboard...
I want Auto-GPT to:
```

- You can either use the default behavior
  - By directly inputting the final goal after I want Auto-GPT to:
- Or manually provide details by input --manual
  - Then give it name, role, goal 1,2,3...



# Some Useful Arguments

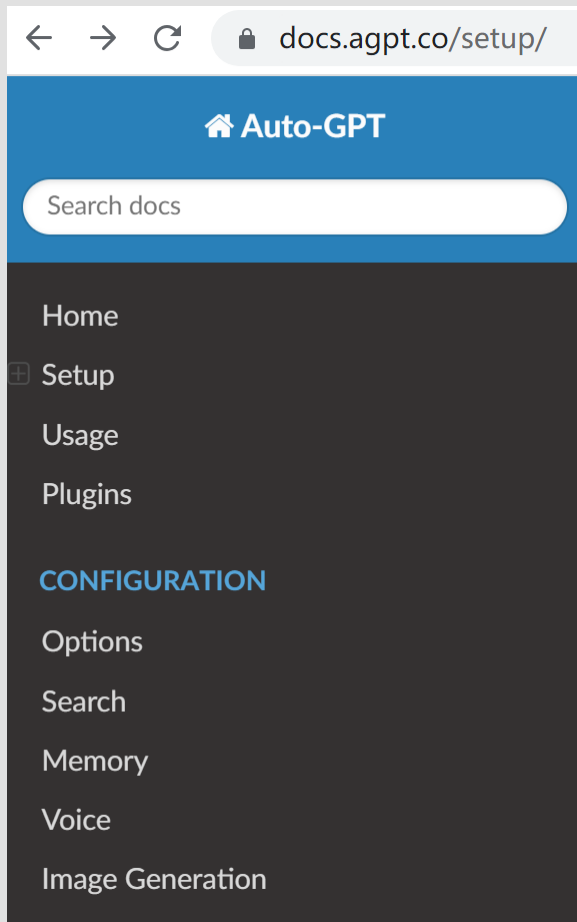
- `--help`
- `--speak`
  - Hear Auto-GPT speak
- `--gpt3only`
  - Focus using GPT3.5
- `--continuous`
  - This mode is not recommended
- `--debug`

You can pass extra arguments by adding them after `docker compose run --rm auto-gpt`

- E.g. `docker compose run --rm auto-gpt --gpt3only`



# Configuration (Use .env to Change Default Configurations)

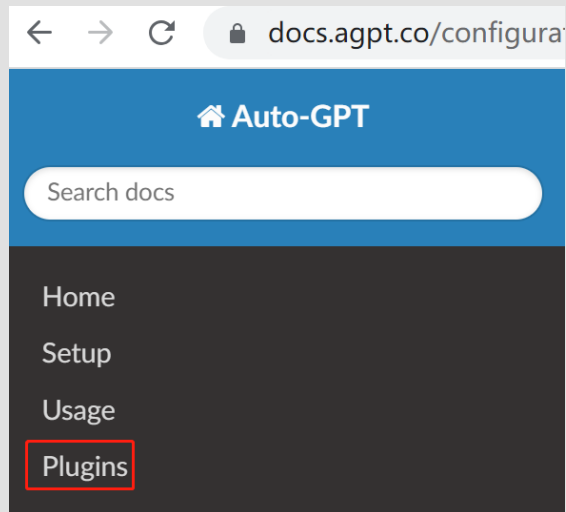


- Memory
  - Pinecone:  
<https://www.pinecone.io/>
- Voice
  - ElevenLabs:  
<https://elevenlabs.io/speech-synthesis>
- Image Generation
  - DALL-e, Hugging Face, and Stable Diffusion WebUI

# Plugins



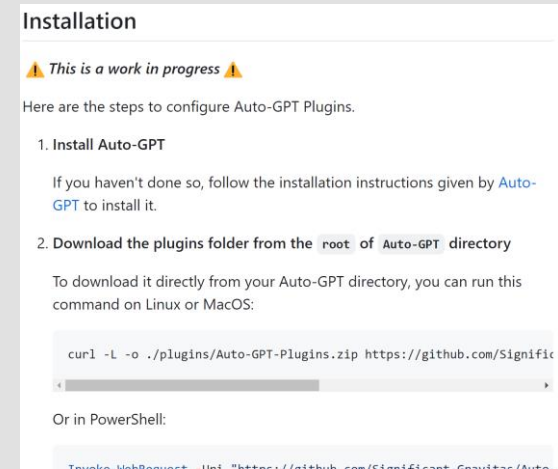
- Docs-Plugins-Plugins Repo



See our [Plugins Repo](#) for more info on how to install all the amazing plugins the community has built!

Alternatively, developers can use the [Auto-GPT Plugin Template](#) as a starting point for creating your own plugins.

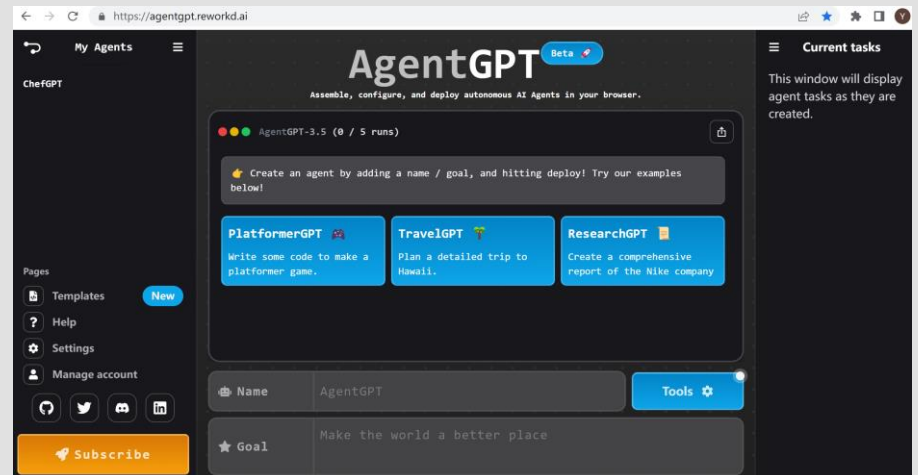
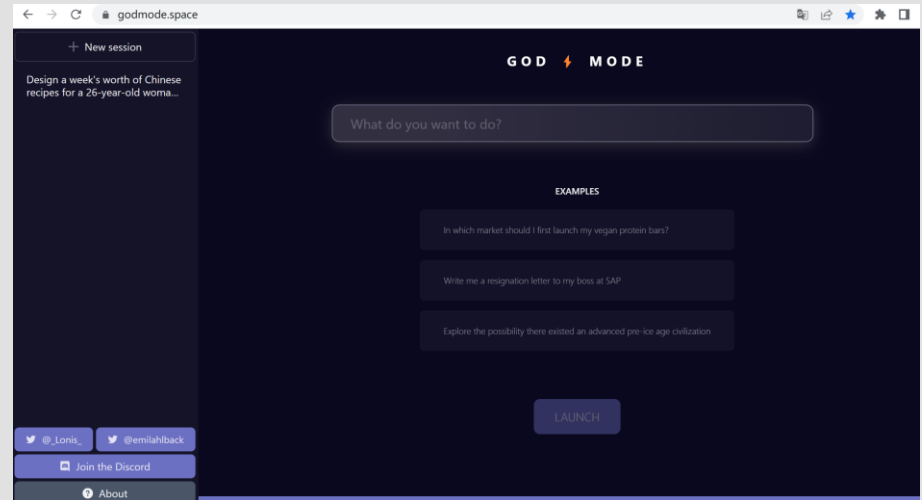
- Follow the installation steps on plugin repo page to set up plugins
  - <https://github.com/Significant-Gravitas/Auto-GPT-Plugins>



# Online Alternative



- God Mode
  - <https://godmode.space/>
- AgentGPT
  - <https://agentgpt.reworkd.ai/>



# Trending Projects Related to Auto-GPT



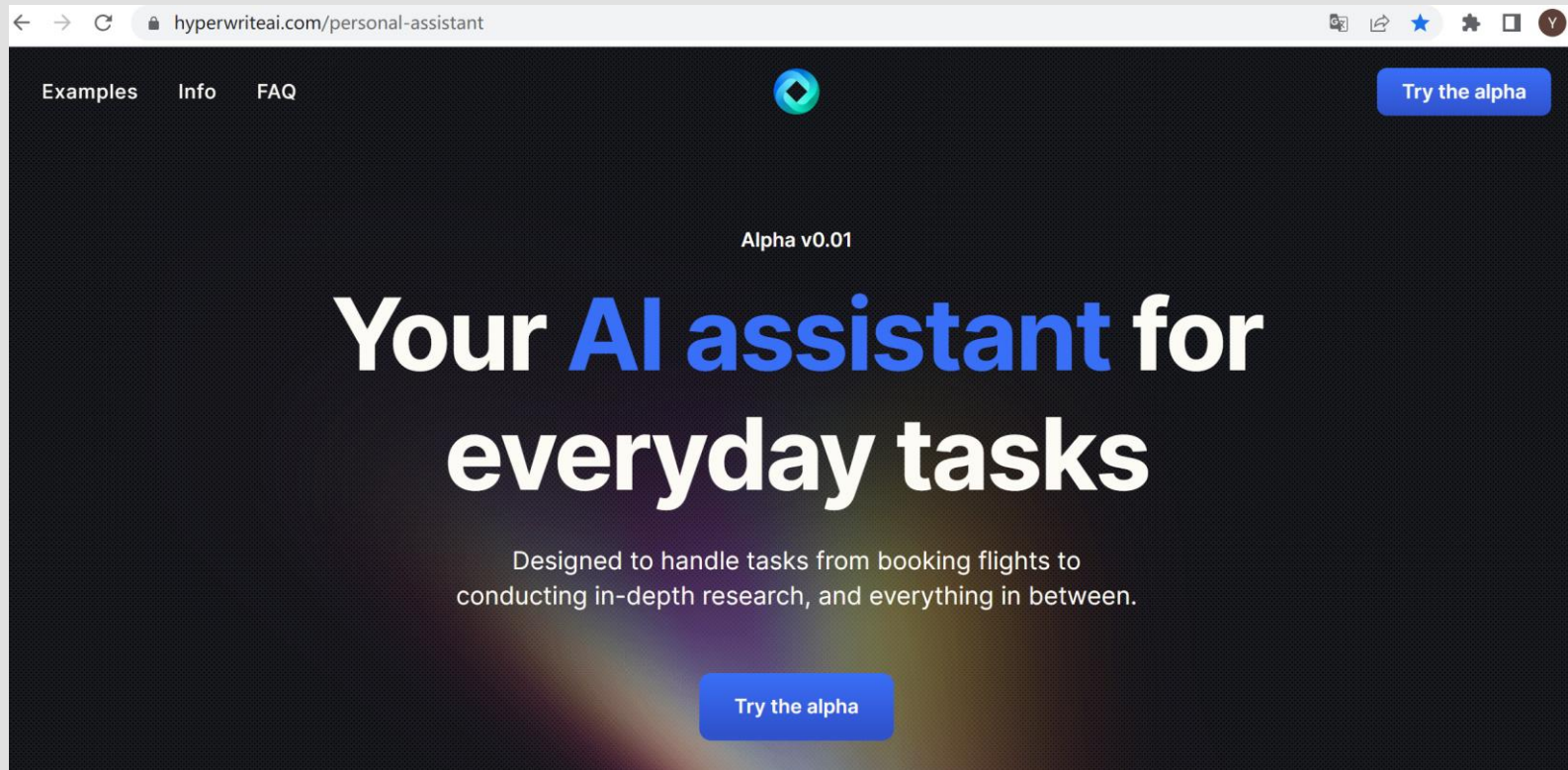
- GPT Web App Generator
  - <https://magic-app-generator.wasp-lang.dev/>

The screenshot shows the web interface of the GPT Web App Generator. At the top, the browser address bar displays 'magic-app-generator.wasp-lang.dev'. The page header includes the site's logo (a character with a purple hat), the title 'GPT Web App Generator' with a star icon, and a subtitle 'Generate your full-stack web app in Wasp, React, Node.js and Prisma'. A 'Learn more' link with a question mark icon is also present. A notification bubble in the top right corner says 'Waiting for instructions'. The main form area contains several input fields: 'App name' with a red asterisk and a placeholder 'e.g. TodoApp or MyPlants'; 'Description' with a red asterisk, a text area containing instructions to describe the app in a couple of sentences, and a note that simpler and more specific apps result in better generated code. Below these are three dropdown menus: 'App brand color' (set to 'sky' with a blue circle icon), 'Creativity level' (set to 'Balanced'), and 'Auth method' (set to 'Username & Password'). At the bottom left, there is an orange button labeled 'Generate the app' with a small icon.

# Trending Projects Related to Auto-GPT



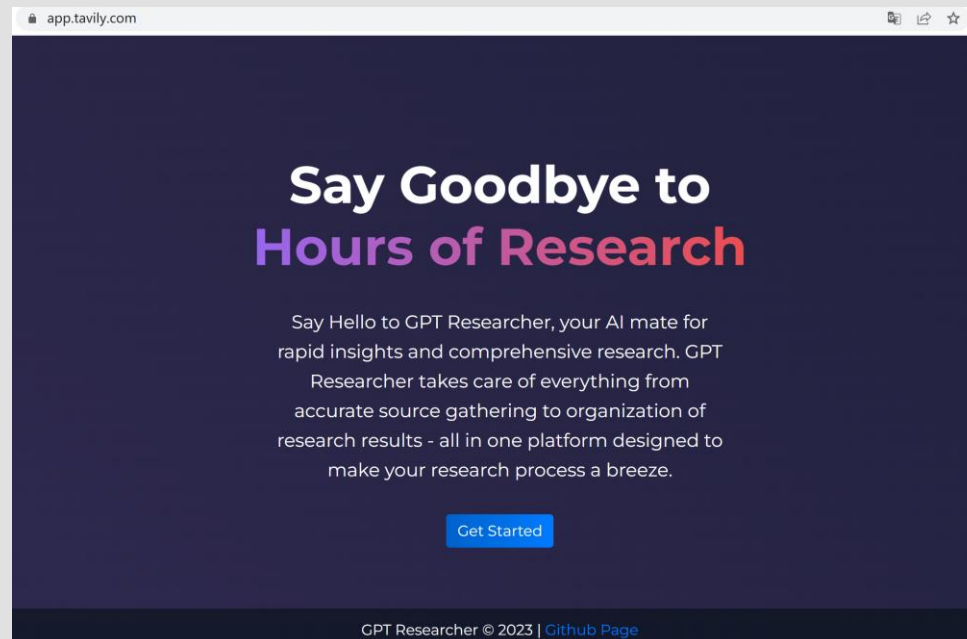
- AI Assistant for Everyday Tasks
  - <https://www.hyperwriteai.com/personal-assistant>



# Trending Projects Related to Auto-GPT



- GPT Researcher
  - <https://app.tavily.com/>
  - Github link: <https://github.com/assafelovic/gpt-researcher>



# Important Notes



- As auto-GPT undergoes **continuous updates** and enhancements, the specifics and details presented today might change. Always refer to the official website for the most accurate and up-to-date information.
- The installation tutorial provided during this talk is tailored for **Windows** users. **Mac** users might encounter some variations in the process.
- This presentation showcases one method of installation and operation. For **additional methods** and comprehensive guidance, consult the **official website**.