



**Steve Nouri** 

@SteveNouri

**Auto-GPT** arrived a couple of days ago and just hit **100,000** Stars on Github!

Why is that cool? What makes it any different from ChatGPT?



# What Is Auto-GPT?

- Auto-GPT is an autonomous AI agent that can complete tasks by generating its own prompts.
- It is built on top of OpenAI's GPT-4 and GPT-3.5 language models.
- Auto-GPT can access websites and search engines to gather data and verify its accuracy.

## Auto-GPT VS ChatGPT?

Both ChatGPT and AutoGPT are built on the same underlying GPT technology.

They differ in their applications and capabilities.

ChatGPT is more focused on conversational AI, whereas AutoGPT is designed as an autonomous AI agent capable of completing tasks with minimal user input.

# Key Features

- Internet access for searches and information gathering
- Access to popular websites and platforms
- Long-Term and Short-Term memory management
- File storage and summarization with GPT-3.5
- GPT-4 instances for text generation



**Andrej Karpathy**   
@karpathy



Next frontier of prompt engineering imo: "AutoGPTs" . 1 GPT call is just like 1 instruction on a computer. They can be strung together into programs. Use prompt to define I/O device and tool specs, define the cognitive loop, page data in and out of context window, .run().



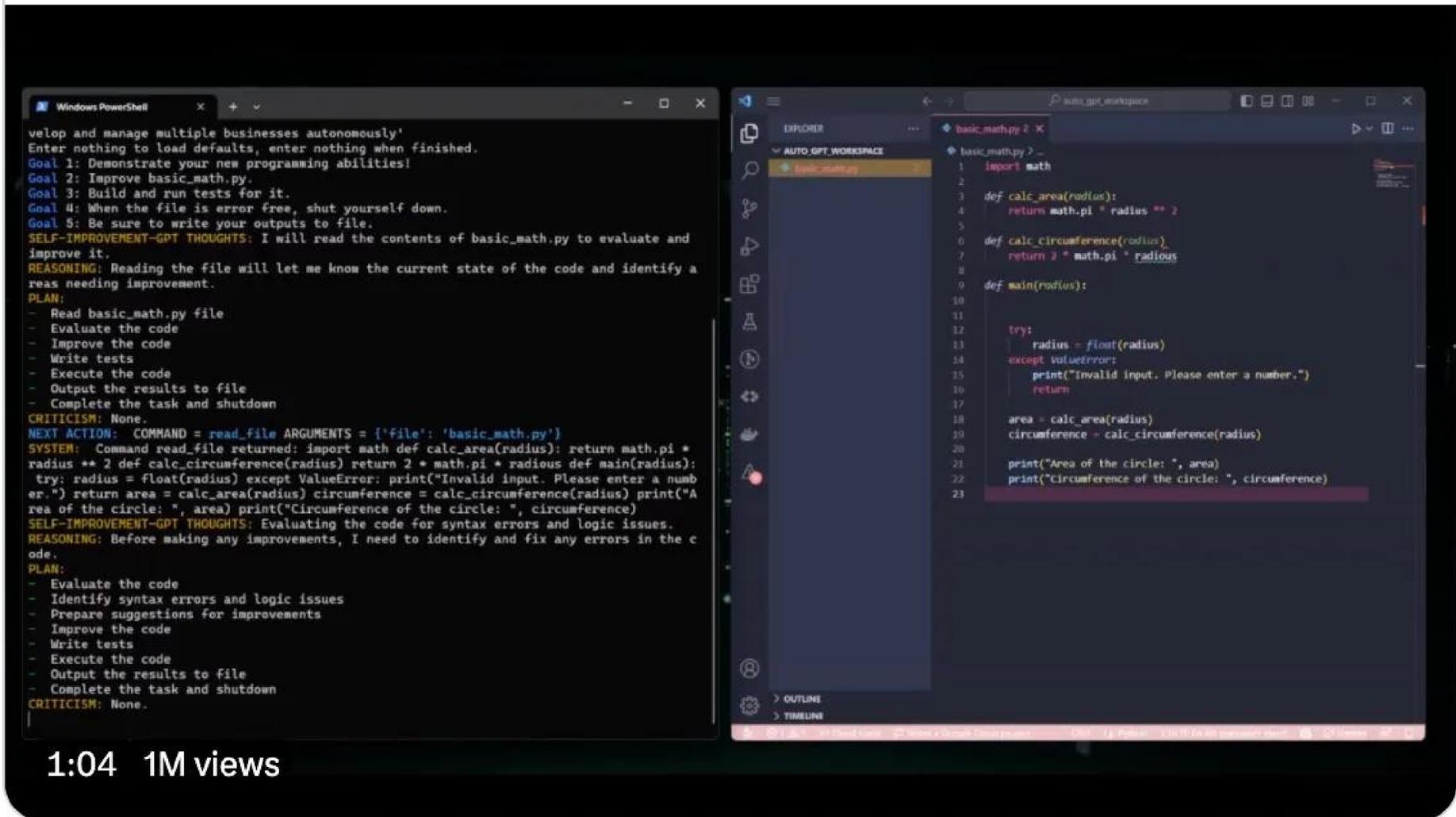
**Significant Gravitas** @SigGravitas · Apr 1

Massive Update for Auto-GPT: Code Execution!

Auto-GPT is now able to write it's own code using #gpt4 and execute python scripts!

This allows it to recursively debug, develop and self-improve...

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8:44 PM · Apr 2, 2023 · 1.5M Views

905 Retweets   121 Quotes   4,823 Likes   2,696 Bookmarks

# Use Cases

- Market research and competitor analysis
- Content generation, summarization, and translation
- Data analysis and visualization
- Customer support and assistance
- Personal productivity and task management

# Build a website in a couple of mins!

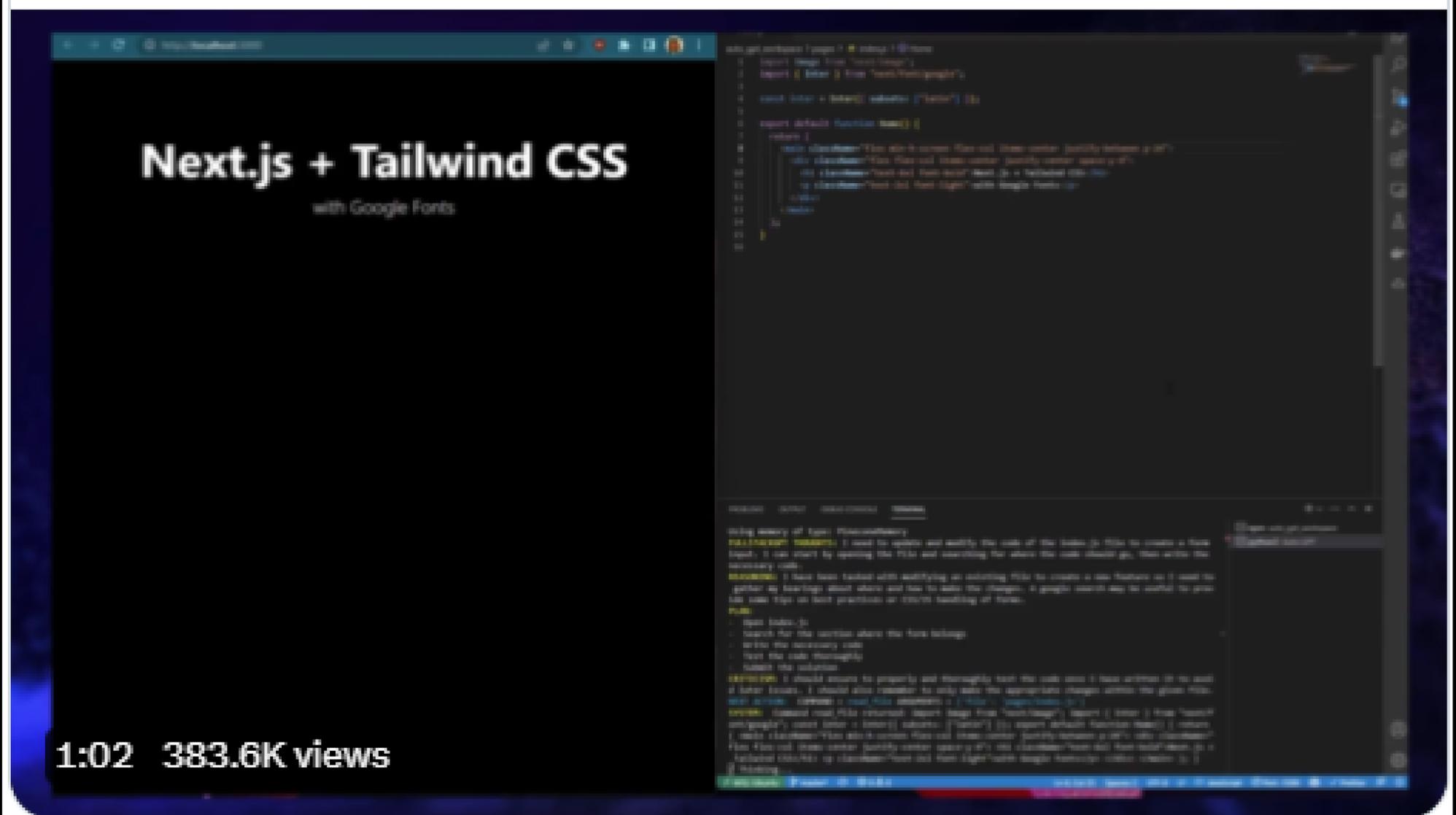
 **Sully**  @SullyOmarr · Apr 7

Alright, this is getting too crazy. Soon you won't even need to code anymore.

I setup AutoGPT and it I asked it to build a website for me.

And it succeeded. In under 3 minutes. Using react and tailwindcss. All by itself.

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# Conduct a research plan in minutes:



David @dzhng · Apr 18

Just launched: an agent specifically designed for research.

Using a modified babyagi architecture by @yoheinakajima & AutoGPT

For example:

- podcast script from latest news
- market research report
- new github repos trending on hacker news

Live now on aomni.com

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The screenshot shows the Aomni AI agent interface with two tasks and their outputs. The first task is to find hacker news posts related to GitHub repos and summarize them. The second task is to generate a market research report on expense tracking apps in the UAE.

**Task 1: Find all hacker news posts that are github repos, summarize the repo and get me the repo's URL**  
Apr 18, 2023

**Answer (truncated):**

**Progress:**  
The execution proceeds in the process of finding all hacker news posts that are GitHub repos and extracting their URLs. Task 1, which focuses on extracting the GitHub repo URLs from the extracted hacker news posts is pending. Task 2, which involves summarizing the GitHub repos, and Task 3, which involves combining the summarized and URLs of the GitHub repos into a final answer, are also pending. The ultimate objective is to provide a list of summaries and URLs of GitHub repos from Hacker News posts.

**Task 2: Get me a detailed market research report on expense tracking apps in the UAE**  
Apr 18, 2023

**Market Research Report: Expense Tracking Apps in the UAE**

A detailed market research report on expense tracking apps in the UAE reveals a growing market with a variety of options for users to manage their finances. Popular apps include Wally, Dhoo X, Howzlogger with Sync, F43 Mobile Banking, ADOO, Money Manager, Emirates 100, Income QR, ADIB Mobile Banking App, Zood Tracker, and Finance. These apps offer features such as expense tracking, budgeting, goal setting, and integration with financial institutions. Prices range from free to paid, with some offering in-app purchases for additional features.

Wally, a UAE-based personal finance app, has gained popularity with 100,000 active users and aims to reach 1 million by the end of the year. The app has received \$400,000 in funding from regional investors for further upgrades, including partnering with financial institutions to provide seamless integration for users to log into their bank accounts through the app and track transactions.

0:57 234.6K views

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# To-Do list is automatically done by ChatGPT:

 **Garrett Scott**   @thegarrettscott · Apr 12

Over the weekend I finished the to-do list that does itself.

Everytime you add a task, a GPT-4 agent is spawned to complete it. It already has the context it needs on you and your company, and has access to your apps.

It's called the Do Anything Machine (Link in thread)

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Top Three Things  
(Text 844-838-2516 to autostart tasks)

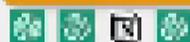
Find the best person at walmart for us to sell to, add them to our Notion CRM, and send an outreach email



Done



Building Task List



Create a memo about our first in product in notion and email it to Ryan Kuder and ask him if he has anyone in mind who would be a good fit to run it

Building Task List

Make an webapp that sends mass emails and Slack chris a tutorial on how to host and launch it

Building Task List

0:26 739.5K views

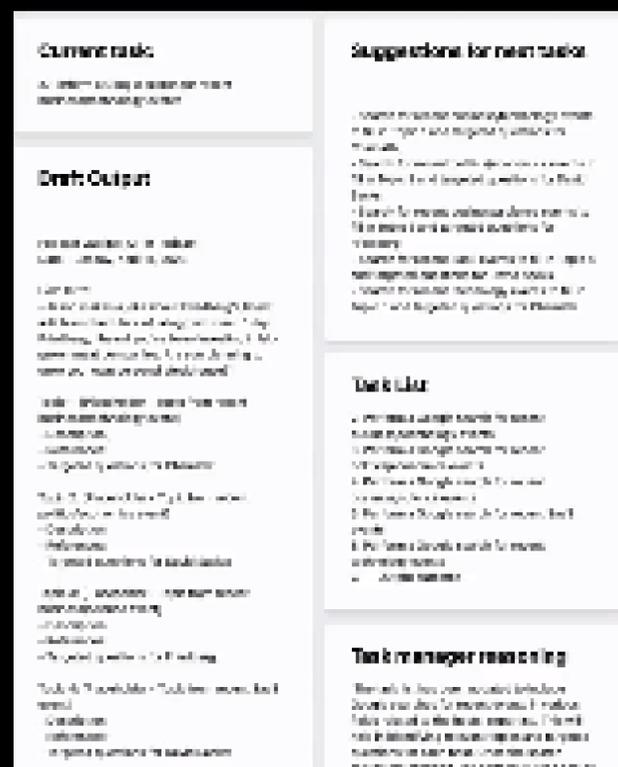
# Prepare a podcast outline based on a recent event:

 **JB**  @jamesbbaker4 · Apr 12

Use case for GPT agent: read about recent events and prepare podcast outline.

All-In podcast example. With 5 searches (and 15 web browses,) Auto GPT research agent prepares a 5 topic podcast on recent news with accurate references (and a cold open.)

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The screenshot displays a GPT agent interface with several panels:

- Current task:** A single task: "Write a 5-part podcast outline about recent news." The task is marked as "Completed".
- Suggestions for next tasks:** A list of five tasks:
  - 1. Research recent news events from the last 24 hours and identify 5 interesting topics.
  - 2. Search for news articles related to each of the 5 topics identified in task 1.
  - 3. Search for more interesting news items related to each of the 5 topics identified in task 1.
  - 4. Research recent news events from the last 24 hours and identify 5 interesting topics.
  - 5. Research recent news events from the last 24 hours and identify 5 interesting topics.
- Draft Output:** A section titled "Draft Output" containing a list of five topics:
  - 1. AI in Healthcare
  - 2. Quantum Computing
  - 3. Space Exploration
  - 4. Climate Change
  - 5. Cryptocurrency
- Task List:** A list of five tasks:
  - 1. Research recent news events from the last 24 hours and identify 5 interesting topics.
  - 2. Search for news articles related to each of the 5 topics identified in task 1.
  - 3. Search for more interesting news items related to each of the 5 topics identified in task 1.
  - 4. Research recent news events from the last 24 hours and identify 5 interesting topics.
  - 5. Research recent news events from the last 24 hours and identify 5 interesting topics.
- Task manager reasoning:** A section titled "Task manager reasoning" containing a paragraph of text explaining the reasoning behind the task list.

1:35 455.6K views

# Use Cases

- Market research and competitor analysis
- Content generation, summarization, and translation
- Data analysis and visualization
- Customer support and assistance
- Personal productivity and task management

# How to Install Auto-GPT

1. Create a paid account at OpenAI.
2. Get an OpenAI API key.
3. Choose an environment to run the program: VSCode + dev container, Docker, or Python 3.10 or later.
4. Follow the installation tutorial for Python on Windows (if required).



**Jim Fan**

@DrJimFan



AutoGPT is a prototype of the next frontier: "Agent Smith" AI that recursively clones itself.

Achieved by (1) identifying \*when\* its context gets overwhelming and needs offloading;  
(2) distilling the "cognitive overflow" part into a prompt directive for its clone;  
(3) talking back and forth with the newly minted siblings to get the job done.

It's far from perfect yet, but we'll soon see this emergent paradigm get a lot more powerful. The funny thing is that GPT Agent Smiths can't do "Neuralink" via high-bandwidth Matrix. Texting is still the bottleneck 🤖



6:19 PM · Apr 12, 2023 · **1.2M** Views

**540** Retweets   **86** Quotes   **3,478** Likes   **801** Bookmarks

# Running Auto-GPT

1. Ensure you have a compatible environment and an OpenAI API key.
2. Set up Auto-GPT using the instructions provided on its GitHub page.
3. Provide a list of tasks that need completion.
4. Auto-GPT will generate prompts and complete the tasks using the provided goals.

# User-friendly Interfaces for Auto-GPT

1. Cognosys.ai

2. AgentGPT

3. Godmode AI

Note: These platforms may require an OpenAI API key and/or user account creation.

## Challenges and Limitations

- Experimental technology with potential bugs and limitations
- Ethical concerns regarding job displacement
- Security and privacy issues related to data access and storage
- Potential misuse of the technology for malicious purposes

## Future of Auto-GPT

- Continuous improvements in AI capabilities
- Integration with more applications and services
- Expansion of use cases across various industries
- Increased adoption and reliance on AI agents for task completion



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**Thanks for reading!**

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