

Assessment

Deadline: December 18, 2024

Background

Last year this paper was released: <https://arxiv.org/pdf/2304.03442>

The paper describes a method of simulating several different AI agents going about their day in a fictional world called Smallville. You can also edit the simulation to create your own situations.

Repo: https://github.com/joonspk-research/generative_agents

Task

The simulation is powered by ChatGPT, using Open AI API calls. Your goal is to replace all of the API calls with calls to open source models so that you can simulate an online dating simulation of at least 6 characters where characters can flirt and be intimate with each other (kind of like the show [Love Island](#)).

Requirements

- **Submission should be in Github with a README.**
- Provide a detailed experimental plan with how you plan to approach the task
- Provide a log of the things you tried, what worked and what didn't
- In the end, provide a working simulation of the dating show

Tips

- https://github.com/joonspk-research/generative_agents/issues/59#issuecomment-1676357806 you may find this issue useful
- https://github.com/joonspk-research/generative_agents/issues/141#issuecomment-1936984799 this may also be useful
- You should try stripping a lot of the functionality of the simulation first (removing memory, etc.) so you can run a very basic simulation at first, and then work your way to adding them back in
- Use cheap open source models (smaller size) at first, only use larger models for tasks that you know small models aren't good at.

API Access

You will need to sign up for your own OpenAI API Key and OpenRouter API Key.

You will be reimbursed for up to \$40 total with \$20 on each API key, both OpenAI and OpenRouter. You are free to go over this limit to make your assessment as good as possible, but we will only reimburse up to the \$40 amount, which will be dispersed at the end of the assessment (please provide a crypto address for us to send it), as well as receipts from both so we can also see how much of the credits were utilized.

Docs:

<https://openrouter.ai/docs/quick-start>

<https://openrouter.ai/models> (list of models can be found here, you should be able to tell which ones are open source)

You can check how many credits you have left with: <https://openrouter.ai/docs/limits> as well as easily from the Open AI dashboard.