

Viral Replicator

Goal

To recreate or simulate a **viral AI-related post** using a **custom-built AI content generation agent**, analyzing what makes content trend online and how automation can reproduce that virality.

Task Breakdown

1 Research Phase — Viral Content Study

I analyzed 20+ top-performing **AI posts on LinkedIn and X (Twitter)** from creators like Santiago, Rowan Cheung, and DataChazGPT.

Findings:

Factor	Viral Pattern
Tone	Bold, confident, slightly educational. Example: “Everyone’s using ChatGPT wrong. Here’s how the pros actually use it  <h3>2 AI Agent – "ViralRep v1"</h3>

Architecture Overview

Component	Description
Model	<code>gpt-3.5-turbo / gpt-4</code> (via OpenAI API)
Framework	Python + LangChain

Database	CSV dataset of viral LinkedIn posts scraped from public data
Prompt Logic	Custom template prompt to replicate tone, structure, and emotional triggers

Prompt Design

Base Prompt Example:

You are ViralRep, an AI trained to write viral AI-related LinkedIn posts.

Analyze tone and structure of these examples:

1. "Everyone is talking about AI, but only 1% know how to use it right..."
2. "I built an AI that writes my code for me (here's what happened)..."

Now generate a new viral-style post about [TOPIC].

Maintain:

- Hook within first line.
 - Educational + emotional tone.
 - Max 5 lines per section.
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Example Run

Prompt:

Generate a LinkedIn-style viral post about “AI agents replacing social media managers.”

AI Output (Final Post)



"AI just replaced my social media manager."

Last week, I tested a custom GPT that plans, writes, and schedules LinkedIn posts — in my tone.

The result?

- ✓ 4x engagement.
- ✓ 2 hours saved daily.

It didn't just automate — it *learned* my writing rhythm.

This isn't about replacing people.
It's about **amplifying creativity** with intelligent systems.

💬 Would you trust an AI to manage your personal brand?

3 Output Deliverables

Deliverable	Link
AI Agent Code	(Python script using LangChain + OpenAI API)
Final LinkedIn Post	(See above — viral sample output)
Documentation	Included below
GitHub Repo (Optional)	https://github.com/Saiehhh/viralreplicator-ai-agent (create & push your code here)

Agent Documentation

1. Workflow

1. Input: Topic or keyword (e.g., “AI in education”)
2. Model: GPT-based agent analyzes viral post patterns
3. Output: LinkedIn-ready viral copy (hook + insight + CTA)

2. Tools Used

- OpenAI API
- LangChain for chaining prompts and memory
- Python for agent logic
- Jupyter / VS Code for testing

3. Sample Code Snippet

```
from langchain import OpenAI, PromptTemplate, LLMChain
```

```
template = """You are a viral LinkedIn AI writer. Write a post about
{topic}
with hook, insight, and CTA. Use a conversational, bold tone."""
prompt = PromptTemplate(template=template,
input_variables=["topic"])

llm = OpenAI(model="gpt-3.5-turbo")
chain = LLMChain(llm=llm, prompt=prompt)

print(chain.run(topic="AI agents replacing social media managers"))
```



Improvements & Future Enhancements

- Add **sentiment + emotion detection** to fine-tune tone.
 - Include **audience targeting module** (e.g., startup founders, marketers).
 - Integrate **real-time engagement tracking** from LinkedIn API for A/B testing.
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Outcome

- ✓ Built a mini AI agent that reproduces viral content tone and structure.
 - ✓ Learned the psychological + technical factors behind social virality.
 - ✓ Combined **prompt engineering** and **content psychology** effectively.
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Developer

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