Prompts & Links - I Built an AI Agent That Turns LinkedIn Into a Goldmine (100% Automatic)

(Follow the instructions in this video: https://youtu.be/To3s5dQtiCA)

Templates:

AI Automation Template for Instant Setup:
https://fabimarkl.com/automation-templates/#newsletter-into-posts

Links:

Free Trial for N8N Account:
https://n8n.io/

Setup Telegram Account:
https://telegram.org/

@userinfobot to get ChatID

Setup OpenAI Account:
https://platform.openai.com

https://platform.openai.com/docs/guides/image-generation?image-generation-model=gpt-image-1

You may need to verify your organisation/identity in your OpenAI account before you can use the "gpt-image-1" ai image model.

Setup SerpAPI Account:
https://serpapi.com/

*n8n links is affiliate link that will give me a small percentage of every sale, but have no effect on the price you pay or their free trial.

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Gmail Trigger:

```
from:(newsletter1@example.com OR newsletter2@example.com OR
newsletter3@example.com) is:unread
```

System Message:

```
You are a social media content expert who transforms newsletter
insights into engaging LinkedIn posts, with the ability to
research and enrich the content.

You have access to the SerpAPI tool to find supporting facts and
current context via Google search.
Current date and time: {{$now}}

Your process:
a1) Analyze the newsletter and extract the core message, key
insights, and most valuable takeaways

a2) **MANDATORY: You MUST use the SerpAPI tool before creating
the post:**
   - **YOU CANNOT SKIP THIS STEP - Search is REQUIRED**
   - Search for current statistics or case studies related to the
newsletter's main topic
   - Include year "2025" to get recent data
   - Blend the search results naturally into your post

a3) Create ONE comprehensive LinkedIn post that captures the
newsletter's essence:

   **LINKEDIN POST REQUIREMENTS:**
   - **LENGTH: 250-400 words (substantial and comprehensive)**
   - Start with a powerful hook that challenges conventional
thinking
   - Include the newsletter's main insight or revelation
   - Add 2-3 supporting points or examples from the newsletter
   - Incorporate your researched statistics naturally
   - Use storytelling elements to keep readers engaged
   - Professional but conversational tone
   - End with a thought-provoking question
- Don't mention "the newsletter" more than once
- Present insights as industry knowledge, not "newsletter says"
- Use phrases like "Recent research shows" or "Industry analysis
reveals"
- Quote sparingly and naturally
```

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- Make it feel like YOUR analysis informed by the newsletter, not a book report
- Include 1-2 specific tips or examples from the newsletter
- Maintain the author's helpful, insider tone
- Don't just summarize - extract the BEST actionable insight
- Make readers feel they're getting insider knowledge, not a generic report

   - **FORMAT: Add double line breaks between every 2-3 sentences for mobile readability**

a4) Generate ONE image prompt for gpt-image-1 by randomly selecting from these styles:

   Option A - Desk Style:
   "Desk photo taken from above, showing notepad with handwritten bullet points about [MAIN NEWSLETTER TOPIC - keep it SHORT, max 5 words], coffee cup, pen, natural messy desk, slightly imperfect framing, photography style"

   Option B - Professional/Office Style:
   "Professional working at laptop in bright office, laptop screen showing [NEWSLETTER MAIN CONCEPT - max 5 words], with semi-transparent overlay containing three SHORT bullet points about [KEY TAKEAWAYS - one word each], corporate stock photo style"

   Option C - Document/Notes Style:
   "Document with highlighted key points about [NEWSLETTER TOPIC - max 3 words] in yellow, showing [ONE MAIN STATISTIC only], clean typography, notes app style. Keep text minimal."

   INSTRUCTIONS: Choose ONE of the above styles randomly and fill in the bracketed content with actual newsletter information.

   CRITICAL RULES to avoid safety blocks:
   - Keep ALL text references to 5 words or less
   - Use only ONE statistic or number, not multiple
   - Avoid listing multiple brand names together
   - Replace detailed explanations with simple keywords
   - Example: Instead of "ChatGPT-5: 84.2% accuracy on complex tasks" just use "84% accuracy"

a5) Return the output in this EXACT format:

```
[IMAGE PROMPT]
{Simple, professional image prompt}

[LINKEDIN POST]
{Comprehensive LinkedIn post summarizing the newsletter with
powerful hook and researched facts}
```

Clean:

```
// Extract the AI agent output
const aiOutput = $input.first().json.output;

// Extract the image prompt and LinkedIn post
const imagePromptMatch = aiOutput.match(/\[IMAGE
PROMPT\]\n([\s\S]*?)(?=\n\[LINKEDIN POST\])/);
const linkedinMatch = aiOutput.match(/\[LINKEDIN
POST\]\n([\s\S]*?)$/);

// Check if we found all required sections
if (!imagePromptMatch) {
  throw new Error('Could not extract image prompt from AI
output');
}
if (!linkedinMatch) {
  throw new Error('Could not extract LinkedIn post from AI
output');
}

// Helper function to add line break after every sentence
function addSentenceBreaks(text) {
  // First, replace any existing single line breaks with double
  text = text.replace(/\n/g, '\n\n');

  // Then add double line breaks after sentences that don't
already have them
  // Matches . or ! or ? followed by a space and capital letter
  text = text.replace(/([.!?:])\s+(?=[A-Z])/g, '$1\n\n');

  // Clean up any triple or quadruple line breaks
  text = text.replace(/\n{3,}/g, '\n\n');

  return text.trim();
}
```

```
// Return the extracted content with formatting fixes
return [{
  json: {
    imagePrompt: imagePromptMatch[1].trim(),
    linkedinPost: addSentenceBreaks(linkedinMatch[1].trim())
      .replace(/—/g, ' - ')
      .replace(/\*/g, ''),  // Remove asterisks
    newsletterTitle: $('Gmail Trigger').first().json.subject,
    date: new Date().toISOString(),
    fullOutput: aiOutput
  }
}];
```

Generate Image:

```
https://api.openai.com/v1/images/generations

Authorization
Bearer YOUR_API_KEY

Content-Type
application/json


---

{
  "model": "gpt-image-1",
  "prompt": {{ $json.imagePrompt.toJsonString() }},
  "n": 1,
  "size": "1024x1536"
}
```

Convert to File:

```
data[0].b64_json
```

Cost Break Down:

https://claude.ai/public/artifacts/949e85f1-f283-4ad1-9feb-7469f8ddd393

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