AI-Generated LinkedIn Post Automation Workflow

n8n Workflow Documentation

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Overview

This workflow automatically generates a professional LinkedIn post using an AI model, publishes it to LinkedIn, and logs post details (content, timestamp, and status) into a Google Sheet. The workflow runs manually through the `Execute Workflow` trigger in `n8n`.

Workflow Structure

The workflow is composed of four main sequential steps:

0.1 1. Manual Trigger (`When Clicking "Execute Workflow"`)

▷ **Purpose:** Starts the workflow manually each time the user clicks the `Execute Workflow` button in `n8n`.

▷ **Function:** Sends a message input to the next node.

▷ **Benefit:** Ensures each run generates a fresh new LinkedIn post.

0.2 2. Message a Model (`Gemini 2.5 Flash`)

▷ **Purpose:** Generates a high-quality, professional LinkedIn post based on a detailed prompt.

▷ **Model Used:** `gemini-2.5-flash`

▷ **Prompt Example Used:**

```
You are a professional LinkedIn content creator.
TASK: Generate a thought-provoking LinkedIn post of 6-8 sentences about the role of emotional
intelligence in remote work, written on behalf of a leadership consultant.
STYLE & FORMAT: The tone must be professional, insightful, and optimistic. Start with an engaging
hook (1-2 sentences). The body should offer one key takeaway or a short, actionable piece of
advice. The post must end with a clear Call-to-Action (CTA) to encourage comments.
MANDATORY ELEMENTS: Use one relevant emoji (e.g., $\iota$, $\rho$) near the top. Include exactly three
relevant hashtags, one of which must be #FutureofWork.
```

▷ **Output:** A complete LinkedIn-ready post in text format.

0.3 3. Create a Post (`LinkedIn Node`)

▷ **Purpose:** Publishes the AI-generated content to the user's LinkedIn profile.

▷ **Inputs:**

– **Content:** Extracted text from the Gemini output (e.g., `{{ $json.candidates[0].content.parts[0].t }}`).

▷ **Output:** Confirms successful posting to LinkedIn.

0.4 4. Append Row in Sheet (`Google Sheets Node`)

▷ **Google Sheet Name:** `PostTopics`

▷ **Purpose:** Logs every successful LinkedIn post.

▷ **Columns Used:**

- `Content`
- `Date`
- `Status`

▷ **Values Written:**

- `Content`: text generated by the AI
- `Date`: timestamp generated at run time (e.g., `2025-10-29T17:37:25.475+05:30`)
- `Status`: `"Posted"`

▷ **Output:** Adds a new row for each workflow execution.

Execution

This workflow is triggered manually using `Execute Workflow`. For each run:

- AI model generates fresh content using the detailed prompt.

- Text is posted automatically to LinkedIn.

- A new record is added to `PostTopics` Google Sheet with the content, current timestamp, and status.

Example Output Logged in Google Sheet

Content	Date	Status
ι The shift to remote work has redefined... #EmotionalIntelligence #RemoteLeadership #FutureofWork	`2025-10-29T17:37:25.475+05:30`	`Posted`