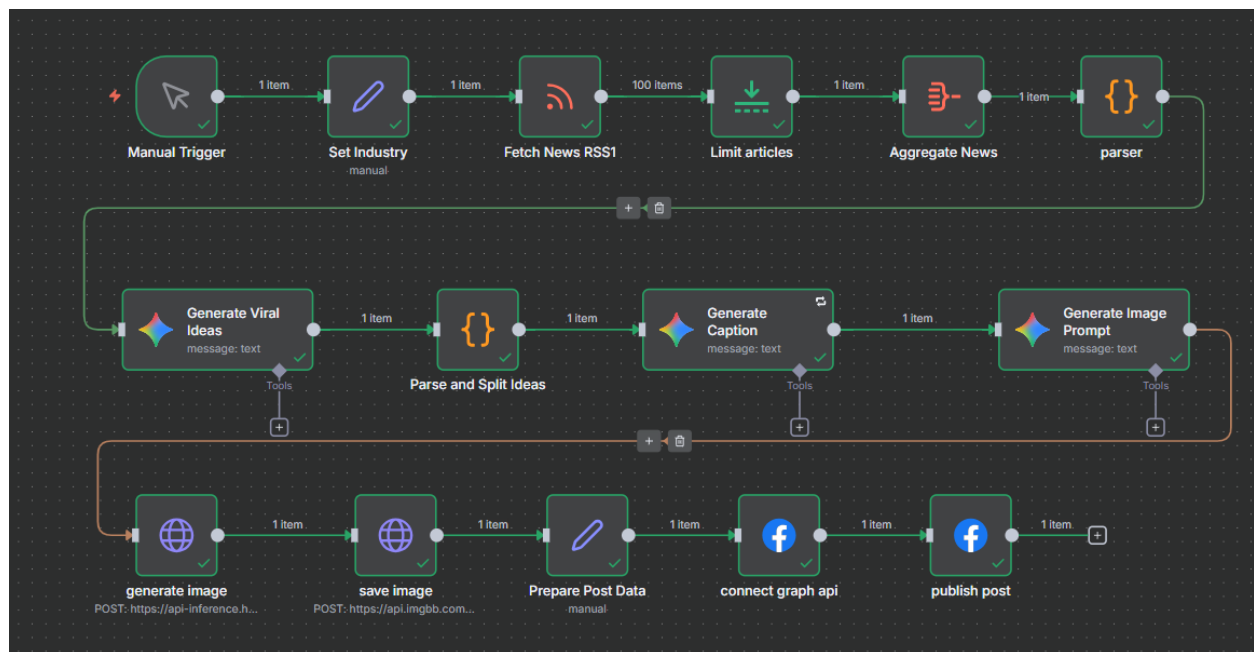G SUDARSHAN SASTRY

Task – AI Development Assignment

The AI-powered automation assignment described in the file involves building a workflow that:

- Scrapes the internet for the top 1 news articles in a chosen industry (e.g., Healthcare).

- Generates 1 viral post ideas based on these news articles.

- Creates Instagram post images and captions for these ideas.

- The workflow utilizes n8n automation platform, integrating AI models (Google Gemini) for generating captions, image prompts, and ideas.

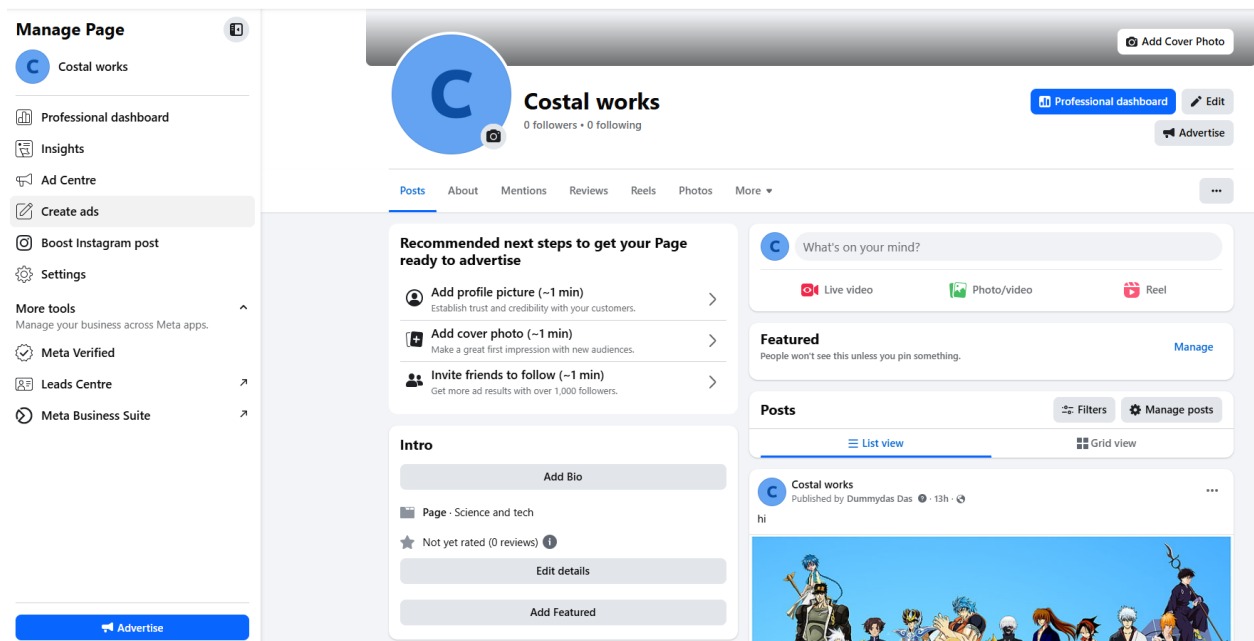 **Note : only 1 because of rate limiting and open source issues**

WORKFLOW:

Challenges

- Ensuring the images contain clear and readable text overlays that are eye-catching and fit Instagram's style.

- Handling API integration and authentication with multiple services such as Google Gemini API and image hosting/upload APIs.

- Parsing AI model responses accurately to extract relevant ideas and prevent JSON parsing errors.

- Generating viral post content that is authentic, engaging, and relevant to the chosen industry.

- Coordinating multiple asynchronous API calls in a single automated workflow.

- Managing token limits and retries for AI model API calls to maintain workflow stability.

Note: Main challenge was with the facebook graph api setup which needs to create a verifies facebook page which should be owned by an Instagram page

Upgrades/Features

- Use of advanced AI language models (Google Gemini 2.5) for viral idea generation, caption writing, and image description prompts.

- Integration of image generation services via Hugging Face API to create Instagram-ready images based on generated prompts.

- Automatic image upload and post creation using Facebook Graph API for Instagram publishing.

- Code nodes in n8n to parse and split the AI JSON response into individual viral post ideas.

- Use of RSS feed scraping for dynamically fetching fresh news articles in a specific industry.

- Limit node to restrict the number of fetched news items for optimized processing.

- Aggregation and formatting of news articles into consumable input for AI models.

- Processing and preparation of post data including image URLs and captions before final publishing.
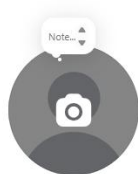
Resources Used

- n8n automation platform as the core workflow orchestrator.

- Google Gemini 2.5 language models (flash and pro) via Google PaLM API for text-based AI tasks.

- RSS feed from Google News for fetching industry news.

- Hugging Face inference API for AI-based image generation.

- IMGBB API for image hosting and URL generation.

- Facebook Graph API for Instagram post creation and publishing.

- Custom JavaScript/TypeScript code nodes for handling complex parsing and data transformation tasks within the workflow.

NOTE: GIBBERISH ENGLISH IS BECAUSE OF OPEN SOURCE IMAGE GENERATION MODEL

BUT THE CAPTIONS ARE GOOD BECAUSE OF GEMINI MODEL

NEED TO USE OPENAI FOR CAPTIONS INSTEAD OF GEMINI AND GPT-5 FOR ACCURATE AND ADVANCED IMAGE GENERATION.

CONCEPTS LEARNT :

1. N8N WORKFLOW (first time working with n8n)
2. Facebook for developers(first time working with this too)

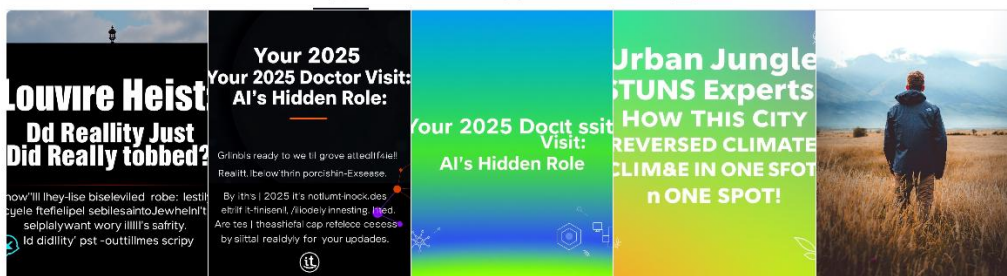**dummydas47** ○

Dummydas Das

8 posts   **0 followers**   **3 following**

Product/service

| Edit profile | View archive |

New

Your 2025
Your 2025 Doctor Visit:
AI's Hidden Role:

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Realitt, Ibelow'thrin porcishin-Exsease.

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Your 2025 Docit ssit
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AI's Hidden Role

Urban Jungle
STUNS Experts
HOW THIS CITY
REVERSED CLIMATE
CLIM&E IN ONE SFOT
n ONE SPOT!

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dummydas47 🚨 HOLD. EVERYTHING. The Louvre was robbed.
And what we're hearing is more insane than any movie script
you've ever seen.

You guys, forget *Ocean's Eleven*. Forget the laser grids in
Mission: Impossible. While Hollywood was busy writing fiction, a
real-life crew was executing a masterpiece of their own, right under
the nose of the entire world. This wasn't a movie. This was a
statement. 😳

They didn't just bypass security; they danced through it. They
moved through the hallowed halls of the world's most famous
museum like ghosts, leaving behind nothing but questions and a
story that feels too wild to be true. The sheer audacity is next-level.
🖼️🎭

It's like we just witnessed the season finale cliffhanger to a show we
didn't even know we were watching. The line between cinematic
fantasy and shocking reality has officially been erased. Hollywood,
take notes.

So, let's be real: Which movie needs a sequel *based on this actual
event*? Drop your pick in the comments below! 👇

3m

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