

n8n “Instagram x AI” Mini-Project

(Please read carefully)

0. TL;DR

Build an **n8n** workflow that, given an Instagram business page (handle or URL):

1. **Scrapes** the most-recent **12 posts** without logging in.
2. Returns **image/video URLs + basic stats** (caption, likes, comments, timestamp).
3. Presents the output in any *readable* form (HTML, Markdown, PDF, etc.).
4. **Bonus #1:** shows the 12 posts in a neat IG-style 3 × 4 grid.
5. **Bonus #2:** adds a *cheap or free* AI-based “profile rating” (your definition).
6. **Bonus #3:** works when imported straight into *our* n8n instance.

Submit your zip or repo (workflow +.json, helper scripts, README) to **akaash@muncho.app** no later than **23:59 SGT, 7 June**.

Need an n8n account? WhatsApp **+65 8817 8335** and we'll invite you to the company cloud workspace; otherwise use your own local/cloud n8n.

Speed matters—earlier submissions score extra.



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1. Technical Pointers (don't skip!)

To save you hunting, these snippet **HTTP Request** nodes or custom JS in n8n should help!

Endpoint	Purpose	Sample / Key Params
<code>https://i.instagram.com/api/v1/users/web_profile_info/?username=<HANDLE></code>	Fetches profile + first 12 posts in one go.	Must set header <code>x-ig-app-id: 936619743392459</code> and a modern <code>User-Agent</code> .
<code>https://www.instagram.com/graphql/query</code> POST body: <code>doc_id=8845758582119845 + variables={"shortcode":"<POST_ID>" ...}</code>	Gets single-post JSON (likes, comments, etc.).	Use when you need richer data per post.
<code>doc_id=9310670392322965</code> with variables <code>{"username":"<HANDLE>","first":12, ...}</code>	Paginates through all user posts (use <code>end_cursor</code>).	Only needed if you plan to page beyond 12.

Anti-bot tips

- No login flows. Those break ToS and your demo.
- 1 request/sec max. Add a tiny delay in an n8n Function node.
- Rotate the `User-Agent`; retry once on HTTP 429.
- Fallback: free tier of **Scrapfly** or any single proxy service is allowed. Please disclose cost if used.

2. Minimum Acceptance Criteria

#	What we'll test	Pass/Fail
1	Workflow importable (JSON) and runnable in n8n 1.0+.	
2	Accepts either <code>@nike</code> or <code>https://instagram.com/nike</code> .	
3	Outputs 12 images/videos with caption snippet, likes, comments, posted-at.	
4	README \leq 1 page: setup, env vars, quota limits.	

Failing any **blocks** your submission.

3. Bonus Levels

Stars	How to earn them
★	Lay out the 12 thumbnails in a 3 × 4 grid (HTML table, Notion page, PDF—your call).
★★	Add an “IG score” using a low-cost or free model (examples: OpenAI <code>gpt-4o-mini</code> \leq 5 ¢, Replicate’s free sentiment model, HuggingFace inference API). Explain cost & methodology in README.
★★★	One-click import into our n8n cloud (no missing creds other than your <code>.env</code> placeholders).
⚡	Submit \geq 24 h before the deadline.

4. Submission Checklist

- `{full-name}-instagram-scraper-workflow.json`
- Optional helper JS/email templates/etc.
- `README.md` (install, run, limits, AI cost).
- If using external services, include free-tier keys or clear setup steps.
- Zip/Git link → **akaash@muncho.app** (subject `n8n-IG-<Your Name>`).

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