Interactive Lab – Build Your First Al Research Flow

Objective

You'll build a simple, powerful automation in **n8n** that:

- 1. Takes a user topic
- 2. Uses Perplexity to research it
- 3. Uses ChatGPT to summarize the results
- 4. Optionally, displays or stores the output

X What You'll Need

- An <u>n8n.io</u> account (desktop or cloud)
- API keys for:
 - o Perplexity (or another research tool)
 - OpenAl (ChatGPT)

Step-by-Step Instructions

Step 1: Create a New Workflow

- 1. Log in to your n8n dashboard.
- 2. Click "New Workflow" in the top right.

3. Name it something like: AI Research-to-Summary Flow.

Step 2: Add a Manual Trigger

- 1. Click "+" and search for Start.
- 2. Select Manual Trigger (it lets you test the workflow manually).
- 3. Click Save.

Step 3: Add a Perplexity Node (Research)

- 1. Click the "+" button after your trigger.
- 2. Search for and select **HTTP Request** (Perplexity doesn't have a native node).
- 3. Set it up:
 - Method: POST
 - URL: https://api.perplexity.ai/your-endpoint (replace with correct URL)
 - Headers:
 - Authorization: Bearer YOUR_API_KEY
 - Content-Type:application/json

Body (JSON):

json

Step 4: Add a ChatGPT Node (Summary)

- 1. Click "+", then choose the **OpenAl** node.
- 2. Set **Resource** to Completion or Chat.

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Prompt:
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arduino
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Based only on the facts: ${\{\$json.result\}\}}$, write a concise 100-word summary.

- 3.
- 4. Choose your **model** (e.g., gpt-3.5-turbo)
- 5. Connect it to the **Perplexity node**.

Step 5: Add an Output Node (Optional)

Choose one:

Option A - View in Set Node

- 1. Add a **Set** node after ChatGPT
- 2. Set a field like summary =
 {{\$json.choices[0].message.content}}

Option B - Save to File

1. Add a **Write Binary File** node to save the summary to disk (desktop n8n only).

Option C – Send to Google Sheets or Airtable

- 1. Add the appropriate integration node
- 2. Map summary field to your chosen column

Test Your Flow

- 1. Click Execute Workflow
- 2. Input a topic like "Al in education" (in the Perplexity body or via manual input node)
- 3. Watch your research + summary flow execute in real time
- 4. Review the result in the output node

Bonus Challenges

 Swap Perplexity with another research source (e.g., SerpAPI or custom GPT)

- Add a **Webhook Trigger** to take topics via form or chatbot
- Add formatting (Markdown, list, JSON) to ChatGPT's output
- Automatically email or publish the result