



N8N-AI Model Update Digest

Automated Daily AI Model & News Digest via Telegram

Overview

N8N-AI Model Update Digest is an automated daily workflow for **n8n** that collates the latest updates about AI models from leading sources, generates a concise summary with AI, and delivers a digest directly to a designated Telegram chat each morning.

Key features:

- Fetches and merges feeds from OpenAI, Anthropic, DeepMind, Hugging Face, Ollama, and more
- Intelligently summarizes new AI model news using advanced AI agents (LangChain + OpenAI GPT-4.1)
- Delivers the summary to Telegram—chunked to fit message limits
- Customizable via RSS sources and notification schedule
- Minimize noise by filtering out old or duplicate feed items

Prerequisites

- **n8n** instance ([install instructions](#))
- API credentials for OpenAI (for GPT-4.1 access)
Sign up for keys at [OpenAI](#)
- Telegram Bot API key & target chat ID
See [How to create a Telegram bot](#)
- RSS feed URLs for any custom sources (optional)
- Internet connectivity & HTTPS outgoing access in your n8n host environment

Installation

1. **Obtain the workflow JSON:** Download or copy the N8N-AI Model Update Digest workflow JSON file provided by AI Solutions, Inc.
2. **Log in to your n8n instance.**
3. From the left menu, choose **Workflows > Import from File/URL**. Select your JSON file and click **Import**.
4. The workflow will appear under your workflows list as **N8N-AI Model Update Digest**.
5. **Do not activate yet.** Complete credential and configuration steps in the next section.

Configuration

This workflow includes key areas that must be configured before use. Review all your credentials and required values.

1. Schedule the digest (Node: **Every Morning at 8 AM**)

Open the Schedule Trigger node and set preferred time (**08:00** by default). Adjust per your timezone or delivery requirements.

2. Configure RSS Feed URLs (Nodes: **Fetch OpenAI News Feed** , etc.)

Each **RSS Feed Read** node includes a URL field. Default sources:

- OpenAI model/news: <https://openai.com/blog/rss.xml>
- Anthropic: <https://www.anthropic.com/news.xml>
- DeepMind: <https://deepmind.com/blog/feed/basic/>
- Hugging Face: <https://huggingface.co/blog/feed.xml>
- Ollama: <https://github.com/ollama/ollama/releases.atom>

To add more: Duplicate an RSS node, add your new feed URL, and connect in parallel to the **Merge All RSS Feeds** node.

3. Merge and Filter (Nodes: **Merge All RSS Feeds** , **Normalize and Filter Feeds**)

The **Merge** node combines all incoming feeds. In **Normalize and Filter** (a code node), ensure your filter logic removes very old, duplicate, or non-model-update stories.

Example: Filter for items from the past 24 hours, or with keywords like "release", "model", "update".

4. If New Items (Node: **If New Items Exist**)

No action needed. This node only passes the workflow onward if fresh news is detected.

5. AI Agent & OpenAI Model (Nodes: **Intelligent Digest Agent** & **OpenAI GPT-4.1 Mini**)

Intelligent Digest Agent invokes LangChain logic to synthesize a summary, utilizing the **OpenAI GPT-4.1 Mini** model.

- **Credentials:** **openAiApi**
 - In n8n left menu, **Settings > API Credentials**
 - Create/Open credential type **OpenAI API**
 - Enter your valid OpenAI API Key and (if required) organization ID
 - Test & save
- **Model Selection:** Ensure **Advanced Model: gpt-4-1106-preview** (or another GPT-4.1 variant) is set in the node.
- **Advanced:** You may adjust summarization prompts in the node for a custom digest tone.

6. Telegram Delivery (Nodes: **Chunk Messages for Telegram** , **Loop Over Telegram Chunks** , **Deliver Digest to Telegram**)

- The workflow splits the summary to fit **Telegram's 4096-character message limit** (chunking).
- **Credentials:** **telegramApi**
 - **Settings > API Credentials > Telegram API**
 - Enter the API key from **@BotFather** in Telegram (e.g., **123456789:abcdefGHIJKLmnoPQRSTUVWXYZ**).
 - Supply the **target chat ID** (either a username or numeric chat id where the bot should post)
 - Test & save. Ensure your bot is added to the chat and has posting rights.
- The final node sends each chunk sequentially to the Telegram chat.

Credential types (required):

- **openAiApi** — for LangChain/OpenAI node (**OpenAI Chat Model**)
- **telegramApi** — for Telegram delivery node (**Send Digest to Telegram**)

No other special variables or webhooks are needed unless adding new sources or services.

Usage

1. **Test the workflow:** From the n8n editor, click **Execute Workflow**. This will fetch and summarize updates from all feeds, then send a test digest to your Telegram chat.
2. **Review the output:** Ensure the delivery arrives in Telegram and is formatted as expected. Message should include date, main stories, and any relevant new releases.
3. **Schedule activation:** Once satisfied, **activate** the workflow (**On**). It will now run daily at your configured hour (default: 8 AM).
4. **Daily operation:** Each morning, the workflow will automatically:
 - Fetch news, filter new updates
 - Generate an AI-powered digest
 - Send the result to your Telegram chat

No manual maintenance required unless source URLs or credentials expire/change.

5. **Customizing feeds:** To track additional AI/model sources, simply paste the new RSS URL into a duplicated **RSS Feed Read** node, and wire into the **Merge All RSS Feeds** node.

Troubleshooting

- **No Telegram messages:**
 - Check Telegram Bot credentials and chat ID in the **Send Digest to Telegram** node.
 - Bot must be a member/admin of the target chat/group.
- **AI summarization errors:**
 - Verify your **OpenAI API key** is valid and not rate limited.
 - Ensure your n8n instance can access OpenAI endpoints.
- **No news/digest is delivered:**

- Make sure the `Normalize & Filter` code node isn't over-filtering (i.e., not filtering everything out).
- Adjust the lookback window or filter keywords if needed.
- **n8n Workflow not triggering:**
 - Check your `Schedule Trigger` node is active and timezone is correct.
 - Manual run from editor can help debug upstream feed/input issues.
- **Telegram delivery issues:**
 - If digest exceeds Telegram's message limit (4096 chars), check that chunking logic is present/enabled in workflow.
- **Feed errors/No updates:** Verify the **RSS URLs** are correct and reachable from your n8n environment.

Remember: Most problems will show red error nodes in the n8n execution log. Click into error nodes for detailed diagnostics and error messages.

Support

For questions, integration help, or feature requests: support@ais.email
See more AI automation solutions at automatedintelligentsolutions.com.
Call: [404-293-0331](tel:404-293-0331) (Mon-Fri, 9am-6pm EST)