**🧠 Use Case: Let AI Read the Tech News for You**

**💡 Goal:**

Automatically track, summarize, and email the most relevant tech news to the user using AI (OpenAI) and workflow automation (n8n).

**🔁 Workflow 1: Save News in a Vector Store (Runs Daily)**

**🔧 Purpose:**

This workflow collects and stores tech news articles in an AI-friendly format for later summarization.

**🔄 Process:**

1. **Trigger** (Get Articles Daily): Executes daily to initiate the process.
2. **RSS Feed Selection** (Set Tech News RSS Feeds): Manual node to configure which RSS feeds to read.
3. **Split Out**: Separates multiple RSS feed URLs.
4. **RSS Reader** (Read RSS News Feeds): Reads articles from each feed.
5. **Normalize Fields**: Extracts titles, content, and metadata in a consistent structure.
6. **Embedding** (Embeddings OpenAI):
   * Transforms the content into vector embeddings for semantic search.
   * Uses Recursive Character Text Splitter and Default Data Loader to handle large texts.
7. **Store Articles** (Store News Articles): Saves the embedded articles in a vector store or document database.

**📬 Workflow 2: Send a Summary (Runs Weekly)**

**🔧 Purpose:**

Uses AI to generate a personalized summary of the most relevant tech news and sends it via email.

**🔄 Process:**

1. **Trigger** (Send Weekly Summary): Executes weekly to start the summarization flow.
2. **User Preferences** (Your topics of interest): Manually configured interests like AI, Google, SpaceX, etc.
3. **AI Tool Agent** (News Reader AI):
   * Uses OpenAI's Chat Model and Memory to search the stored articles based on user preferences.
   * Summarizes the most relevant content.
4. **Convert to Email Format**: Converts AI-generated summary to HTML email.
5. **Send Email** (Send Newsletter): Sends the final summary to the user's email using Gmail integration.

**🛠️ How to Use:**

* Set up OpenAI & Gmail credentials in n8n.
* Define RSS feeds and topics of interest.
* Activate the workflows on a daily (news ingestion) and weekly (summary email) schedule.

**✅ Requirements:**

* OpenAI credentials (for embeddings and summarization)
* Gmail or SMTP setup for sending emails
* RSS feeds list

**📌 Key Benefits:**

* Saves time by automating daily tech news tracking.
* Delivers AI-generated summaries tailored to your interests.
* Great for busy professionals, tech enthusiasts, and researchers.