



FM

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Premium Workflow

A practical guide – step by step

Document Summarization

Summarize long documents automatically: ingest PDFs, chunk content, generate concise summaries and store them for search.

AI & CONTENT

ADVANCED

ABOUT 2–3 HOURS SETUP

OVERVIEW

Document Summarization

Summarize long documents automatically: ingest PDFs, chunk content, generate concise summaries and store them for search.

CATEGORY	DIFFICULTY	DURATION
AI & Content	Advanced	About 2–3 hours setup

What you use it for

Research teams, legal review and knowledge management.

Tools in this workflow

OpenAI API · Supabase · n8n · Pinecone Vector API

How to implement it

1

Ingest PDFs and documents

Import PDF documents and other file formats into the system to prepare them for processing. This ensures that all relevant information is captured.

WHAT YOU NEED TO DO

1. Open n8n and create a new workflow.
2. Add the 'Read PDF' Node and configure the file path.
3. Connect the Node with an 'HTTP Request' Node to send the file to Supabase.
4. Configure the Supabase Node with access credentials.
5. Start the workflow to import the PDFs.

CHECK AT THE END

- [] PDFs are successfully loaded into n8n.
- [] Data is correctly sent to Supabase.

RESULT

The PDFs are successfully imported into the system.

2

Extract and chunk text

Split the extracted text into smaller sections to facilitate subsequent processing and analysis. This improves the efficiency of AI information processing.

WHAT YOU NEED TO DO

1. Create a new node in n8n for text extraction.
2. Use the OpenAI API to split the text into sections.
3. Configure the node with your OpenAI API key.
4. Connect the node to the previous workflow.
5. Test the workflow to ensure the text is correctly chunked.

CHECK AT THE END

- [] Text is successfully extracted.
- [] Text is divided into manageable sections.

RESULT

The text is successfully extracted and divided into sections.

3

Generate summaries with AI

Use AI to generate concise summaries from chunked texts. The AI extracts key information for a clear summary.

WHAT YOU NEED TO DO

1. Add a new node in n8n to use the OpenAI API.
2. Configure the node with the 'gpt-4o-mini' model.
3. Connect the node to the previous workflow.
4. Provide chunked texts as input for the summary.
5. Run the workflow to generate summaries.

CHECK AT THE END

☐ Summaries are generated.

☐ Summaries are concise and clear.

RESULT

The AI has generated concise summaries of the texts.

4

Store summaries and embeddings

Store generated summaries and their corresponding embeddings in a database to ensure quick access and efficient storage.

WHAT YOU NEED TO DO

1. Create a new node in n8n for storing in Supabase.
2. Configure the node with Supabase login credentials.
3. Connect the node to the workflow that generates summaries.
4. Store summaries and embeddings in the Supabase database.
5. Verify database entries for completeness.

CHECK AT THE END

- ☐ Summaries are stored in the database.
- ☐ Embeddings are correctly stored in the database.

RESULT

Summaries and embeddings are successfully stored in the database.

5

Expose a search endpoint

Set up a search endpoint to query stored summaries and embeddings. This enables users to quickly find relevant information.

WHAT YOU NEED TO DO

1. Create a new HTTP endpoint in n8n.
2. Configure the endpoint to send requests to the Supabase database.
3. Use the Pinecone Vector API to search through embeddings.
4. Connect the endpoint with the Pinecone API for searching.
5. Test the endpoint to ensure that the search function works correctly.

CHECK AT THE END

- ☐ The search endpoint is reachable.
- ☐ Search queries return correct results.

RESULT

A functioning search endpoint has been set up.

RECOMMENDED TOOLS & RESOURCES

Recommended Tools & Resources

All tools in this workflow with their official website.

OpenAI API

<https://platform.openai.com/?ref=flowmatrix>

Official URL

Supabase

<https://supabase.com/?ref=flowmatrix>

Official URL

n8n

<https://n8n.io/?ref=flowmatrix>

Official URL

Pinecone Vector API

<https://www.pinecone.io/>

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