

Sentiment Summarizer with n8n + OpenAI + Google Sheets

Overview

This workflow performs automated **sentiment analysis** on text submitted through a form. When a new submission is received, n8n triggers OpenAI to evaluate the tone of the text and classify it as **Positive**, **Negative**, or **Neutral**, then logs the result into a connected Google Sheet for tracking and reporting.

Workflow Logic

1. **Trigger** – Activated by a new form submission.
2. **LLM Processing** – The text is sent to an OpenAI model through a Basic LLM Chain node. The model prompt is designed to return a single-word sentiment label: *Positive*, *Negative*, or *Neutral*.
3. **Merge Step** – Combines the original review text and model output.
4. **Append Step** – Appends the merged data as a new row in a Google Sheet for easy viewing and further analysis.

Prompt Used

The model prompt ensures consistent, minimal, and objective output:

You are an expert in sentiment analysis.

You conduct evaluation and determine which of the three options applies: Positive, Negative, or Neutral. Respond with just one word.

Use Cases

- Monitoring customer feedback from surveys or forms.
- Analyzing product or service reviews.
- Automating response categorization in customer support workflows.

Setup Summary

- Tools: **n8n**, **OpenAI API**, **Google Sheets**
- Authentication: API keys configured in n8n for OpenAI and Google.
- Trigger Source: Web form (or any service integrated via webhook).

Outcome

Each new submission is automatically processed, analyzed, and recorded, removing the need for manual review and enabling teams to track sentiment trends directly from a spreadsheet.