



# AI Receipt Organizer - Setup Guide

This workflow uses **Telegram** to capture receipts, **Google Gemini AI** to analyze them, and **n8n** to rename and organize them into your **Google Drive**.

## Prerequisites

- A self-hosted **n8n** instance.
  - A **Google Cloud** account (Free).
  - A **Telegram** account.
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## Step 1: Prepare Google Drive (Crucial!)

For the automation to work, you must create the exact folder structure in your Google Drive.

1. Create a main folder named: **Receipt Hub**
2. Inside **Receipt Hub**, create a **Google Sheet** named **Receipt Database**.
  - Add these headers in Row 1: **Date**, **Vendor**, **Amount**, **Currency**, **Category**, **Link**.
3. Inside **Receipt Hub**, create exactly these **9 sub-folders** (The AI sorts files into these):
  - **Eating Out**
  - **Groceries**
  - **Utilities**
  - **Transport**
  - **Shopping**
  - **Subscriptions**
  - **Tech & Office**
  - **Medical**
  - **Miscellaneous**

**Important:** You need to get the **Folder ID** for each of these 9 folders. (*Tip: Open a folder in your browser. The ID is the random string at the end of the URL: [drive.google.com/drive/u/0/folders/1g9Dj0YM...](https://drive.google.com/drive/u/0/folders/1g9Dj0YM...)*)

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## Step 2: Import the Workflow

1. Download the `receipt_organizer_ai.json` file.
  2. Open n8n -> **Workflows** -> **Import from File**.
  3. Select the JSON file.
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## Step 3: Configure Credentials

You will see some nodes have red warning signs. You need to connect your accounts.

### 1. Telegram Trigger Node:

- Create a new credential.
- Open Telegram and search for **@BotFather**.
- Send `/newbot`, name your bot, and copy the **API Token**.
- Paste the token into n8n.

### 2. Google Gemini Node:

- Create a new credential.
- Go to [Google AI Studio](#).
- Get a free **API Key**.
- Paste it into n8n.

### 3. Google Drive & Sheets Nodes:

- Create a generic "Google OAuth2" credential.
  - You need a **Client ID** and **Client Secret** from Google Cloud Console.
  - *Note: Ensure your Google Cloud OAuth Consent Screen is set to "Production" so your login doesn't expire every 7 days.*
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## Step 4: The Final Link (Paste Your IDs)

This is the only code you have to touch.

1. Open the node named **Format Data** (it's the Code node in the middle).
2. Look at the top of the code for the section `const FOLDER_IDS = { ... }`.
3. Replace the text `"YOUR_FOLDER_ID_HERE"` with the actual Folder IDs you copied in Step 1.
  - *Example: "Eating Out": "1g9Dj0YM9DZIYWziVI5L5MzmLxMgGHB55"*,
4. **Save** the node.

## Step 5: Connect the Sheet

1. Open the **Save to Sheets** node.
2. In the **Document** field, select "From List" and choose the **Receipt Database** sheet you created in Step 1.
3. Ensure the columns are mapped correctly (Date -> Date, Vendor -> Vendor, etc.).



## You are done!

Send a picture of a receipt to your Telegram bot. It should reply in a few seconds confirming it has been saved to the correct folder!