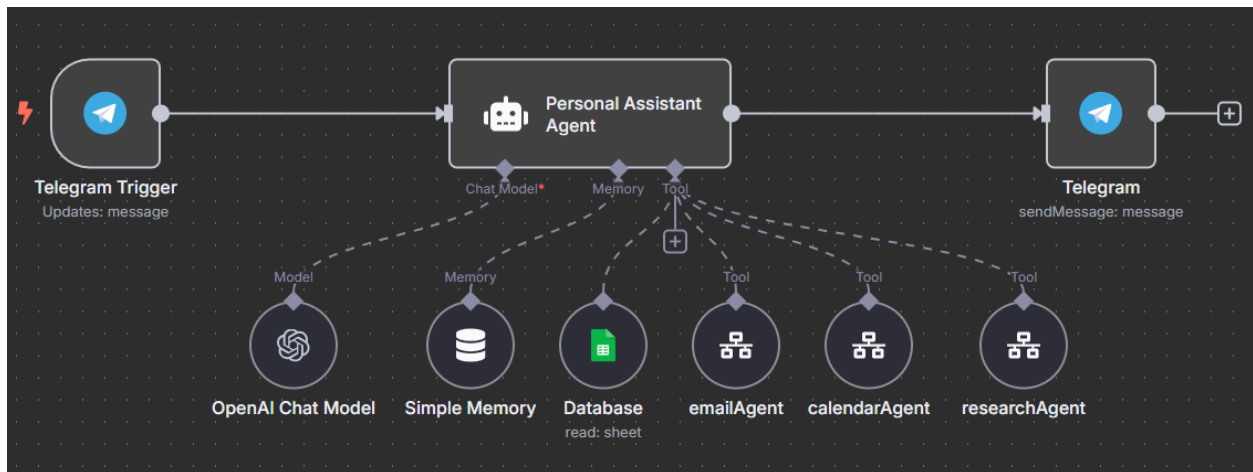


AI-Powered Personal Assistant Agent

Personal_Assistant_Agent (1).json



Tags / Properties

- **Tech stack:** n8n, Telegram Bot, OpenAI (GPT-4o), Google Sheets, Custom Agents (Email, Calendar, Research)
- **Project type:** AI Agent, Workflow Automation, Communication & Scheduling Assistant
- **Industry:** Professional Services / Productivity
- **Year/Timeline:** 2025

Overview

Built an AI-powered personal assistant integrated into Telegram that manages communication, scheduling, and research tasks. The system retrieves contact details from a Google Sheets database, then uses connected agents for sending emails, managing calendars, and performing internet research—all orchestrated through n8n.

Problem

Busy professionals often juggle:

- Searching for the right contact details before sending emails.
- Manually scheduling meetings across tools.
- Context switching between messaging, email, and calendar apps.
This led to **inefficiency, errors, and wasted time**.

Solution

Designed an **AI Assistant Workflow** in n8n with Telegram as the user interface:

1. **Input via Telegram** → User types a request (e.g., "Schedule a meeting with Stacy tomorrow at 3 PM").
2. **Contact Lookup** → Queries **Google Sheets database** for accurate contact details.
3. **AI Processing** → **GPT-4o** interprets intent and routes request to the right tool.
4. **Email Agent** → Sends or retrieves emails after confirming recipient info.
5. **Calendar Agent** → Schedules, updates, or cancels events after contact verification.
6. **Research Agent** → Performs internet searches when user requests information.
7. **Memory Buffer** → Maintains session context for multi-turn conversations.
8. **Output via Telegram** → Responds back to the user with confirmation/results.

Tools used

- **n8n** (workflow orchestration, memory, routing)
- **Telegram Bot** (user interface)
- **OpenAI GPT-4o** (intent recognition, conversation handling)
- **Google Sheets** (contact database)
- **Email Utility Agent** (email tasks)
- **Calendar Agent** (scheduling tasks)
- **Research Agent** (external information retrieval)

Impact/Outcome

- **Efficiency:** Reduced time spent managing email/calendar tasks by automating them in one interface.
- **Accuracy:** Ensures verified contact info before executing actions, preventing errors.
- **Convenience:** Centralized communication + scheduling from Telegram without switching apps.
- **Scalability:** Easily extendable with new agents (e.g., CRM, task manager integrations).