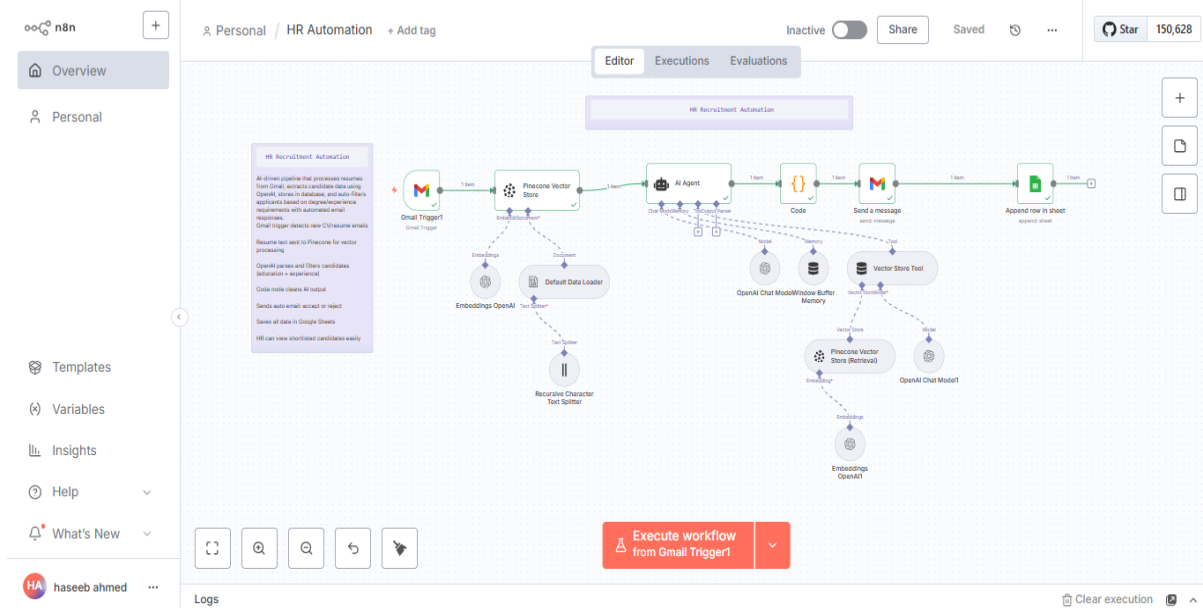


HR Recruitment Automation using n8n

Project Overview

This n8n automation project streamlines the HR recruitment process by automatically collecting, analysing, and filtering incoming resumes. The workflow eliminates manual screening, ensures consistent evaluation based on defined criteria, and maintains organized candidate records for easy HR review.

Summary Page



Gmail Node Monitoring

Automatically monitors the HR inbox for new emails containing attachments with the words “CV” or “Resume” in the subject or body.

Purpose: To identify and capture all incoming job applications without manual checking.

The screenshot displays the n8n workflow editor. On the left, a canvas shows a workflow with a 'Fetch Test Event' node. In the center, the 'Gmail Trigger1' node configuration panel is open, showing the 'Parameters' tab. The configuration includes:

- Credential to connect with:** Gmail account 5
- Poll Times:** Mode set to 'Every Minute', with an 'Add Poll Time' button.
- Event:** Message Received
- Simplify:** Toggle switch is turned off.
- Filters:** Search field contains 'has:attachment', with a note to 'Use the same format as in the Gmail search box.' and a 'More info.' link.

On the right, the 'OUTPUT' panel shows a single item named 'attachment_0' with the following details:

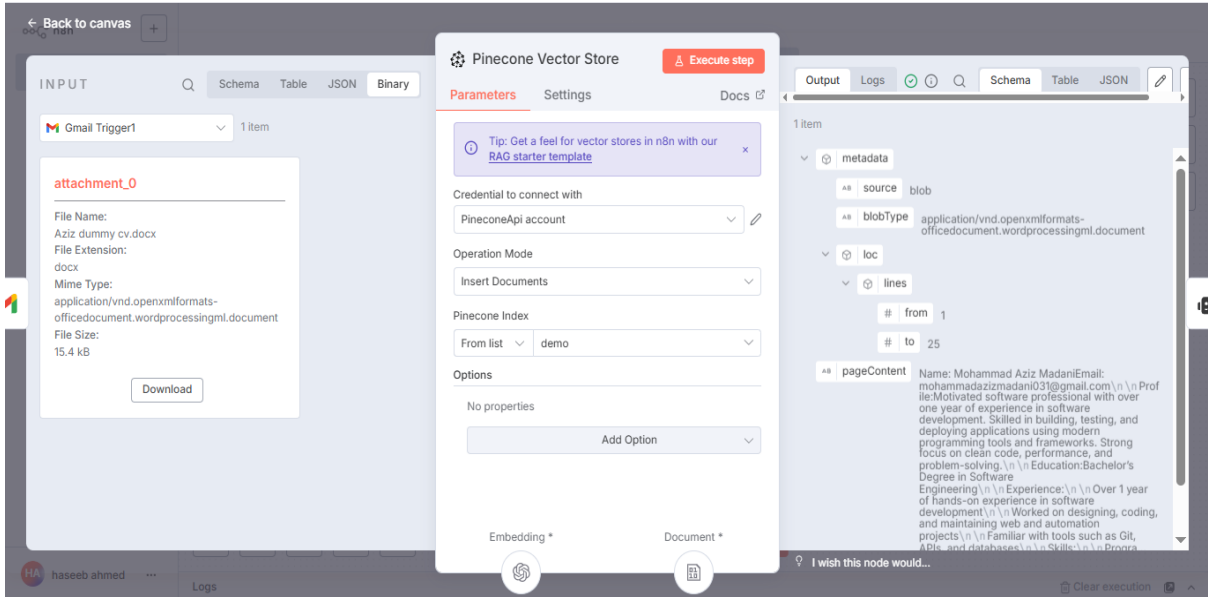
- File Name: Aziz dummy cv.docx
- File Extension: docx
- Mime Type: application/vnd.openxmlformats-officedocument.wordprocessingml.document
- File Size: 15.4 kB

A 'Download' button is visible below the output details. The bottom of the interface shows the user 'haseeb ahmed' and a 'Clear execution' button.

Resume Processing

When a qualifying email arrives, its attachment (resume) is sent to **Pinecone Vector Store** for text splitting and vectorization.

Purpose: To convert the resume text into a structured format that can be processed by AI for data extraction.



Qualification Filtering

The AI agent reviews each resume to verify qualifications:

- **Education:** Bachelors in Software Engineering or any Finance degree
- **Experience:** At least 1 year

Results:

- *Application sent for further processing* — qualified
- *Rejected* — not qualified

Purpose: Automatically filters candidates based on set criteria.

The screenshot displays the AI Agent interface with three main panels:

- INPUT Panel:** Shows a workflow starting with a **Pinecone Vector Store** containing 1 item. The **metadata** field is expanded, showing **source** as `blob` and **blobType** as `application/vnd.openxmlformats-officedocument.wordprocessingml.document`. The **loc** field is expanded, showing **lines** from 1 to 25. The **pageContent** field contains a resume for **Mohammad Aziz Madani**, detailing his profile, skills (Python, JavaScript, C++, etc.), education (Bachelor's Degree in Software Engineering), and experience (Over 1 year in software development).
- AI Agent Panel:** The **Parameters** tab is active. The **Agent** is set to **Tools Agent**. The **Source for Prompt (User Message)** is set to **Define below**. The **Prompt (User Message)** is: "You are a strict resume parsing API. Extract information from the resume text and output ONLY valid JSON. ## EXTRACTION RULES: Extract full name from contact information. You are a strict resume parsing API. Extract information fr...". The **Require Specific Output Format** toggle is turned on. A warning message states: "Connect an output parser on the canvas to specify the output format you require".
- Output Panel:** The **Output** tab is active, showing the result of the AI agent's execution. The output is a JSON object:

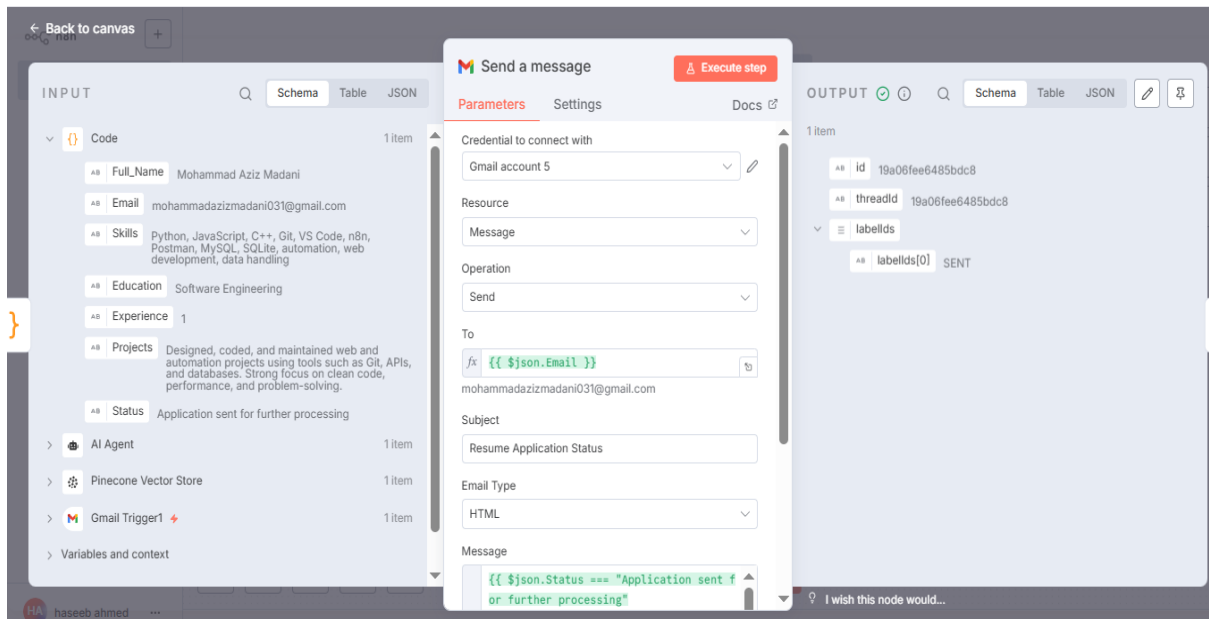
```
{\n  "full_name": "Mohammad Aziz Madani",\n  "email": "mohammadazizmadani031@gmail.com",\n  "skills": "Python, JavaScript, C++, Git, VS Code, n8n, Postman, MySQL, SQLite, automation, web development, data handling",\n  "education_field": "Software Engineering",\n  "years_of_experience": 1,\n  "experience_summary": "Designed, coded, and maintained web and automation projects using tools such as Git, APIs, and databases. Strong focus on clean code, performance, and problem-solving.",\n  "status": "Application sent for further processing"\n}
```

Automated Email Response

If the candidate's resume meets company requirements, an automated email is sent to inform them that their application has been accepted and they will be contacted for an interview.

If not, a polite rejection email is sent thanking them for applying.

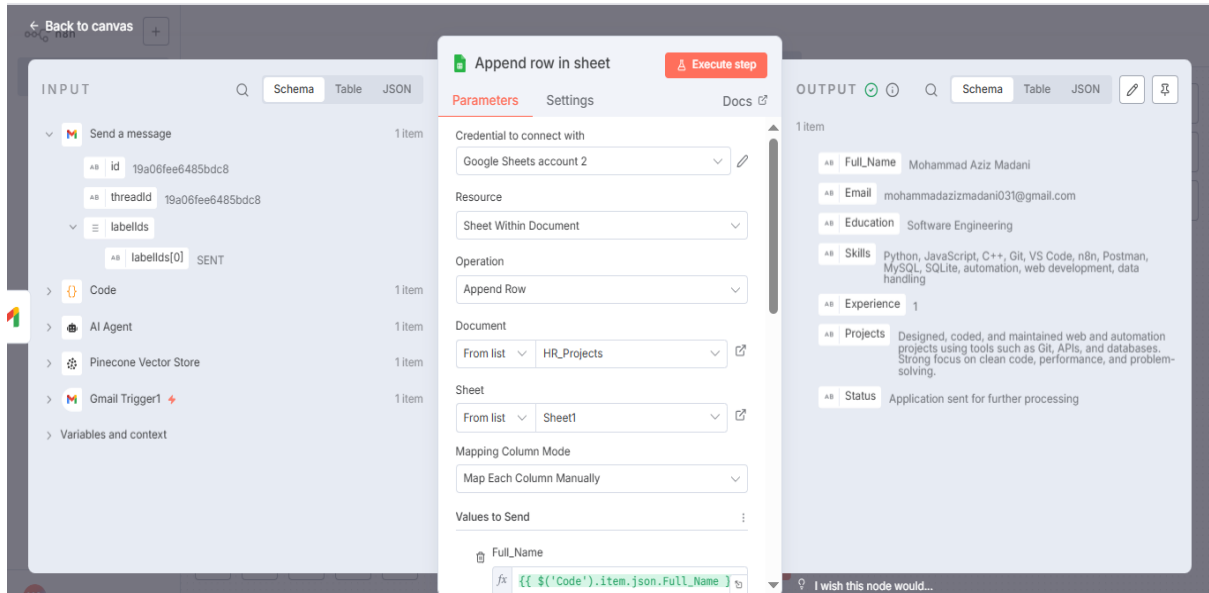
Purpose: To provide professional and timely communication with all candidates.



Data Logging

All candidate details, including extracted information and qualification status, are appended to a **Google Sheet** for HR reference.

Purpose: To maintain a centralized and organized database of all applicants for easy tracking and follow-up.



Outcome Of HR Automation Project

- Automates the complete recruitment process from email detection to candidate evaluation and response
- Saves HR time by eliminating manual screening
- Reduces human errors in resume evaluation
- Improves overall efficiency and consistency in HR operations