

Resume Shortlisting

AI-Agent

Automated CV Screening & Evaluation System

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Problem Statement

Recruitment Screening Challenges:

- Manual screening of hundreds of resumes is time-consuming and inefficient
- Inconsistent evaluation criteria across different reviewers
- Bottlenecks in hiring pipeline extending recruitment timelines
- Screening fatigue affecting quality of assessments
- Valuable HR resources tied up in administrative tasks

Solution Overview

Resume Shortlisting AI-Agent:

- Automated system that intelligently analyzes resumes against job descriptions
- Provides consistent evaluation and categorization of candidates
- Automatically sorts resumes into designated folders (Shortlisted, Rejected, Keep-in-View)
- Updates tracking systems with candidate information and scores
- Eliminates manual screening while maintaining quality standards

Tools & Integrations

Technology Stack:

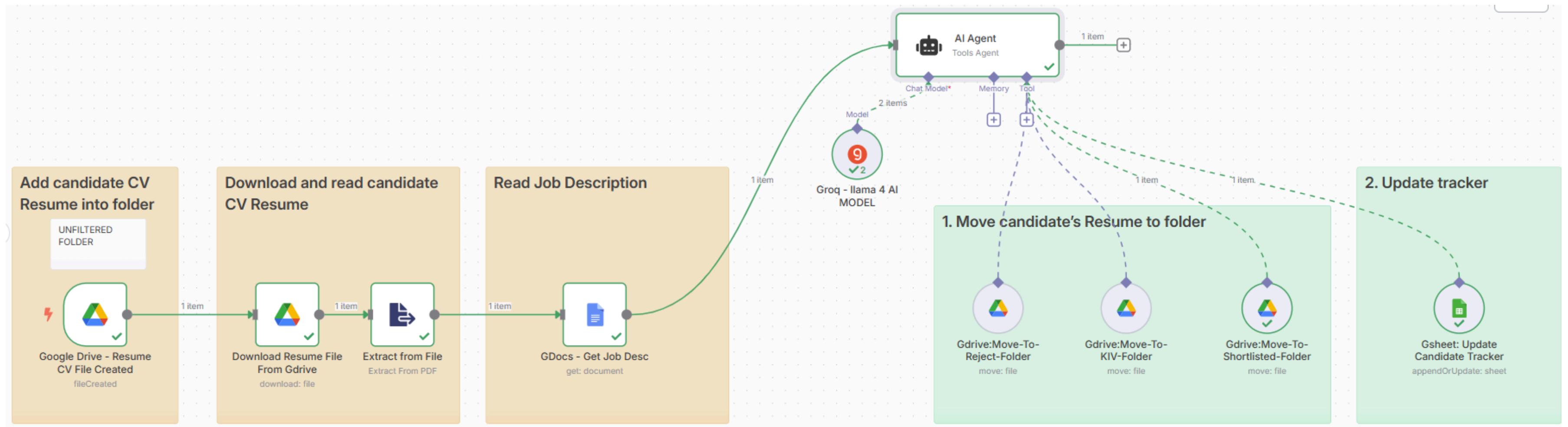
- n8n: Core workflow automation platform
- Groq API: AI provider using meta-llama-4-maverick-17b-128e-instruct model
- Google Workspace:
 - Drive (file storage)
 - Docs (job descriptions)
 - Sheets (tracking)
- Model Context Protocol (MCP): Framework for structured AI interactions

Model Context Protocol (MCP) Implementation

MCP Enhancement:

- Standardizes how context is provided to and processed by AI models
- Implemented in n8n workflow for structured prompts and responses
- Ensures consistent evaluation framework across all resumes
- Maintains clear instructions and formatting for AI analysis
- Improves reliability and consistency of candidate assessments

n8n Workflow Implementation



Workflow Steps

Process Initiation:

1. Trigger: New file detected in "Unfiltered" Google Drive folder
2. Download: Resume file retrieved for processing
3. Extract: Text content extracted from PDF document
4. Context: Job description retrieved from Google Docs

AI Processing & Actions:

1. AI Analysis: Resume evaluated against job description using MCP framework
2. Decision: Candidate categorized based on match score (1-100)
3. File Management: Resume moved to appropriate folder based on decision
4. Tracking: Results recorded in Google Sheets with score and rationale

AI Agent Configuration

Core Intelligence Component:

- **Large Language Model(LLM):** meta-llama-4-maverick-17b-128e-instruct via Groq

Tools

- Google Drive Folders - Rejected, Shortlisted, KIV
- Google Sheets - Tracker

Expected Outcomes

Key Benefits:

- Significant reduction in resume screening time
- Consistent application of evaluation criteria
- Enhanced organization of candidate pool
- Detailed documentation of all assessments, can be added in further functionalities
- Improved resource allocation in HR department

Implementation Process

Four-Step Deployment:

1. **Setup:** Configure n8n instance and create Google Workspace structure
2. **Configuration:** Build workflow nodes and customize AI prompts for position
3. **Integration:** Connect APIs (Google, Groq) and configure credentials
4. **Testing & Deployment:** Validate process with sample resumes and activate

Conclusion

- AI-powered resume screening transforms recruitment efficiency
- Consistent, scalable solution for handling high application volumes
- Frees HR resources for higher-value activities
- Demonstrates practical application of AI in business processes
- Improves overall candidate experience through faster processing

Thank You

Resource page

