

UMANG KHAVDA

AI Automation Engineer | GenAI & Agentic Systems Developer

Ahmedabad, India

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🌐 Portfolio: <https://theumang.me>

💻 GitHub: <https://github.com/umangworkAIML>

SUMMARY

AI Automation Engineer focused on **designing, orchestrating, and scaling AI-driven workflows** for real-world business use cases. Strong emphasis on **process design, system thinking, and rapid prototyping** using JSON-based automation (n8n), LLMs, and agentic frameworks. Comfortable separating **reasoning (AI)** from **execution (automation)** to build transparent, reusable systems.

CORE SKILLS

AI & GenAI

LLMs (Gemini, Llama-3), LangChain, LangGraph, RAG, Prompt Engineering, Agentic Workflows

Automation & Orchestration

n8n (JSON workflows, Webhooks, API orchestration), Google Sheets automation, Email automation (SMTP/Gmail)

Programming & Data

Python (Advanced), SQL (SQLite), JSON, REST APIs

Engineering Concepts

Workflow Design, State Management, Error Handling, Modular Systems, Rapid Prototyping

PROJECT EXPERIENCE

AI Lead Follow-Up Automation (n8n + LLM)

Business Workflow Automation

- Designed an end-to-end automation pipeline using **n8n JSON workflows** to minimize manual setup time.
- Implemented a structured flow:
- Webhook for lead intake
- Data preparation layer for clean downstream processing
- LLM-based reasoning and message generation

- Automated Gmail email delivery
- Google Sheets logging for visibility and tracking
- Focused on **process clarity and auditability**, ensuring non-technical stakeholders can track outcomes.
- Architecture designed for **easy reuse and customization** across different business use cases.

Tech Stack: n8n, Gemini API, JSON, Gmail SMTP, Google Sheets

Project Zero – Autonomous Self-Healing AI Agent

Dec 2025 – Present

- Built an autonomous “Junior Developer” agent capable of writing, executing, debugging, and fixing code independently.
- Designed a **cyclic execution graph** using LangGraph where the agent detects failures and iteratively self-corrects.
- Integrated real-time web research via Tavily API to resolve unknown errors dynamically.
- Implemented persistent memory using SQLite for cross-session context retention.

Tech Stack: Python, LangChain, LangGraph, Llama-3, Groq API, SQLite

EDUCATION

Bachelor of Science (B.Sc.) – Information Technology

Swaminarayan University, Ahmedabad

2025 – 2029 (Current)

CERTIFICATIONS & INTERESTS

Certifications

Fundamentals of AI (Qualcomm), Prompt Engineering

Interests

AI-driven automation, business workflow optimization, scalable agent systems, open-source contribution

Positioning Statement:

I focus on designing automation systems first — execution details come later.