

# UMANG KHAVDA

AI Automation Engineer | GenAI and Agentic Systems  
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## SUMMARY

AI Automation Engineer focused on designing and building real world automation systems using GenAI and agent based workflows. Strong at breaking vague problems into clear system logic, defining constraints, and structuring execution flows where AI handles reasoning and automation handles action. I work fast because architecture, context, and decision flow are designed by me, while repetitive execution is accelerated using AI tools.

## CORE SKILLS

### **Meta Prompt and Context Engineering**

Designing high quality prompts, system instructions, memory structure, and execution context so LLMs behave predictably across multi step workflows. Logic, validation, and structure are human driven. AI is used only as an execution accelerator.

### **AI and GenAI Systems**

LLMs (Gemini, Llama 3), LangChain, LangGraph, RAG pipelines, agentic workflows, tool calling, reasoning loops.

### **Automation and Orchestration**

n8n (JSON workflows, Webhooks, API orchestration), Gmail and SMTP automation, Google Sheets based tracking systems.

### **Programming and Data**

Python (advanced), SQL (SQLite), JSON, REST APIs.

### **Engineering Concepts**

System design, workflow decomposition, state management, error handling, modular architecture, rapid prototyping.

## PROJECT EXPERIENCE

### **AI Lead Follow Up Automation System**

Designed and built an end to end lead follow up system using n8n and LLMs to reduce manual handling in sales workflows. The system was structured for clarity so non technical users could understand and audit each step.

Core system design included webhook based lead intake, data preparation layer, LLM driven reasoning and message generation, automated Gmail delivery, and Google Sheets logging. Architecture was modular for reuse across 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 agent capable of writing, executing, debugging, and fixing code independently.

Designed cyclic execution graphs using LangGraph with failure detection and retry logic. Integrated real time web research and persistent memory for long running autonomy.

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

## EDUCATION

Bachelor of Science (B.Sc.) in Information Technology  
Swaminarayan University, Ahmedabad  
2025 – 2029 (Currently enrolled)

## CERTIFICATIONS

Fundamentals of AI (Qualcomm)  
Prompt Engineering

## INTERESTS

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

## POSITIONING STATEMENT

I design the system first. Logic, constraints, and structure are defined by me. AI is used to accelerate execution, not replace thinking.