

HARSHAL JAGTAP

AI Automation Engineer

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PROFESSIONAL SUMMARY

Results-driven software engineer specializing in AI automation, API integrations, and scalable data pipelines. Proven ability to build self-hosted orchestration workflows (n8n), implement real-world Large Language Models (LLMs) with Vector DBs (RAG), and develop backend microservices (FastAPI, Python). Passionate about delivering operational efficiency, seamless lead management, and intelligent system integrations across various business domains.

TECHNICAL SKILLS

- **Automation & Orchestration:** n8n, Cloudflare Tunnels, Webhooks, CRON Jobs, Zapier equivalents
- **AI & LLM Integration:** OpenAI APIs, Google Gemini, Hugging Face, RAG Architecture, Vector Databases, RASA
- **Programming Languages:** Python, JavaScript, C#, SQL, C++
- **Backend & System Design:** FastAPI, Flask, REST APIs, JSON Data Parsing, Microservices
- **DevOps & Databases:** Docker, Azure Functions, PostgreSQL, MongoDB, SQLite, MySQL

PROFESSIONAL EXPERIENCE & FREELANCE PROJECTS

Self-Hosted AI & Business Automations • **Project Lead** (Remote)

- **Automated Booking Pipelines:** Built an end-to-end automated appointment booking workflow for veterinary clinics, handling multi-channel lead intake, dynamic scheduling, and follow-up communications.
- **LLM & Vector DB Chatbots:** Engineered customer-facing social media chat agents utilizing LLMs connected to a Vector Database to accurately extract, process, and answer queries based on internal document context.
- **System Integration & ETL:** Authored Python scripts within n8n workflows to fetch, parse, and structure complex JSON payloads from third-party REST APIs and inventory systems.
- **Infrastructure & Security:** Deployed and maintained self-hosted automation infrastructure using n8n on a Docker VPS; configured secure public API endpoints via Cloudflare Tunnels without exposing server ports.
- **Marketing & Event Triggers:** Designed automated pipelines triggered by IMAP/SMTP emails for internal notifications, workflow execution, and lead qualification routing.

DEV Information Technology • **Machine Learning & Backend Intern** (Jan 2024 – June 2024)

- **Conversational AI & Extraction:** Developed and deployed custom RASA conversational agents for mobile platforms, increasing end-user data extraction accuracy by 30%.
- **Serverless Cloud Deployment:** Successfully refactored and migrated Python FastAPI microservices into Azure Functions, enhancing endpoint scalability and reducing response latency.
- **LLM APIs & Transformers:** Integrated Hugging Face transformers alongside commercial LLMs (Google Gemini, OpenAI) to execute complex text processing workflows and natural language understanding tasks.
- **Data Modeling & Analytics:** Trained regression models and neural networks using TensorFlow and Keras on high-variance data; developed Power BI dashboards to translate data insights into actionable business strategies.

LemonLogic Interactive • **Systems & Software Developer** (Jan 2025 – Mar 2026)

- **Complex State Management:** Engineered modular logic and customized data structures to handle diverse configurations, performance tracking, and dynamic interactive workflows.
- **Algorithm Design & Pathfinding:** Implemented search algorithms and intelligent feedback systems to dynamically evaluate user logic and route multi-step processes.
- **Performance Optimization:** Designed resource-efficient logic loops and implemented Object Pooling to maintain high performance in processing-heavy simulation environments.

EDUCATION

Indus Institute of Technology and Engineering — Bachelor of Technology (B.Tech) in Computer Science and Engineering (2021 – 2024)

Rancharda, Gujarat | CGPA: 8.70 / 10.00

L.J. Polytechnic — Diploma in Computer Engineering (2018 – 2021)

Ahmedabad, Gujarat | CGPA: 8.61 / 10.00