

Rajpal Singh Rathore

AI Automation Engineer

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PROFESSIONAL SUMMARY

AI Automation Engineer experienced in building end-to-end AI-powered workflows and internal systems. Strong expertise in Python, LLM integrations, RAG pipelines, and automation platforms. Delivered production-grade solutions for CRM, call intelligence, virtual assistants, and business process automation with measurable efficiency gains.

SKILLS AND EXPERTISE

- **AI & LLM:** RAG Pipelines, Vector Databases, Embeddings, Prompt Engineering, Tool Calling, AI Agents, MCP Servers
- **Languages:** Python, Java, SQL, HTML, CSS, JavaScript, C++
- **Python Stack:** FastAPI, Selenium, Pandas, NumPy
- **Automation & Tools:** n8n, Make.com, Notion, Airtable, Excel, GitHub Copilot, Cursor IDE, GitHub, Figma, Framer
- **Databases:** PostgreSQL (Supabase), MySQL, MongoDB (Beginner)
- **Cloud & DevOps:** AWS (EC2, S3, IAM), Azure (Beginner), Vercel, Google Cloud Console, Docker (Basics)
- **Methodologies:** Agile, Scrum, Waterfall

PROJECTS

1. Calling & Sales Call Analysis System

AI, RAG, Supabase, n8n

- Built an AI-driven call intelligence platform with automated transcription, sentiment scoring, objection detection, and outcome classification.
- Implemented RAG pipelines using vector embeddings for contextual insights, personalized feedback, and manager-level reporting.
- Enabled daily, weekly, and monthly performance dashboards, reducing manual QA and review effort by **60%+**.

2. Hey Buddy – Virtual AI Assistant

Python, OpenCV, LLM APIs

- Developed a smart virtual assistant with face authentication, speech recognition, browser automation, and system-level controls.
- Integrated email automation, Spotify API, Google services, and conversational LLM responses.
- Won **1st place** at College Project Exhibition for technical innovation.

3. Internal Team CRM

Supabase, PostgreSQL

- Designed a role-based internal CRM with task, leave, project, and document management.
- Implemented activity logs, audit trails, and Slack/Discord notifications for operational visibility.

4. Superbot – AI Database Query Assistant

Python, LLMs, SQL, Vector DBs

- Built an AI-powered bot that answers database questions in natural language by converting user queries into optimized SQL.
- Implemented NL-to-SQL generation with schema-aware prompting and vector embeddings to continuously track and understand database structure.
- Used vector-based schema indexing to stay in sync with database changes without manual updates.
- Executed queries securely and translated results back into clear, human-readable responses.
- Designed a system memory layer to retain conversational context and improve follow-up query accuracy.

PROFESSIONAL EXPERIENCE

AI Automations Engineer (Intern)

Tasknova

Jun 2025 – Present — Pune, India

- Built and deployed production-grade automation workflows for CRM, lead generation, reporting, and internal operations.
- Integrated LLM APIs, Supabase/PostgreSQL, and third-party tools into scalable automation pipelines.
- Delivered weekly automation solutions aligned with business KPIs and cost constraints.

EDUCATION

BBA (Computer Applications) — Savitribai Phule Pune University

2022 – 2025

Modern Education Society's Ness Wadia College of Commerce, Pune

ACHIEVEMENTS

- **Winner (1st Place)** — 2025 College Project Exhibition