

SAMARTH NVALE

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Professional Summary

AI automation engineer with hands-on experience at JIN Labs designing and deploying AI agents, n8n workflows, and RAG systems for business operations. Proficient in Python, REST APIs, and LLM integrations. Currently pursuing B.Tech CSE at ITM Group with focus on automation engineering, backend systems, and applied machine learning.

Education

ITM Group of Institutions

Bachelor of Technology - Computer Science & Engineering

July 2025 – Aug 2029

Navi Mumbai, Maharashtra

- Focus: Automation engineering, backend systems, applied ML, data structures & algorithms
- Relevant Coursework: Programming languages, OOP, mathematics for computing, AI systems

Gopi Birla Memorial School

High School Diploma - Computer Science

May 2023 – May 2025

Mumbai, Maharashtra

Experience

AI Automation Intern

JIN Labs - AI Automation Company

Nov 2025 – Present

Mumbai, India

- Built and tested AI automation workflows using Python, REST APIs, and LLM tools for client-facing business processes
- Designed conversation flows, prompt chains, and task automations for sales and marketing use cases
- Integrated third-party APIs (CRM, email platforms) and monitored/diagnosed workflow issues
- Collaborated with cross-functional teams to deploy agents and document integration steps for handover
- Implemented RAG pipelines using documentation, FAQs, and CRM notes for improved agent accuracy

Projects

AI Sales & Support Agent | *Python, OpenAI, RAG, n8n, SQL*

Dec 2025

- Built AI agent prototype using Python and LLM APIs to qualify leads, answer FAQs, and log interactions
- Implemented RAG pipeline using documentation/FAQ files and CRM-style notes for context retrieval
- Integrated with n8n workflows for email automation and CRM updates
- Achieved 40% faster prospect scoring through automated lead qualification

n8n Marketing Automation Workflow | *n8n, REST APIs, Python, Webhooks*

Nov 2025

- Created n8n workflows connecting web forms, email, and CRM to automate lead capture and enrichment
- Implemented API calls with error handling, logging, and performance tracking
- Built custom Python scripts for data transformation and conditional logic

Sample ATM System | *Python, SQL, RDBMS*

Aug 2025

- Banking simulation integrating Python and SQL with transactional operations and data integrity
- Implemented secure authentication, transaction logging, and normalized database schema
- Focus on robustness, error handling, and backend logic for banking operations

Technical Skills

AI Automation & Workflows: n8n workflow automation, AI agent development, tool-calling orchestration, multi-step agent pipelines, LLM + automation hybrid systems, workflow testing & monitoring

Programming & Backend: Python (advanced), JavaScript, C, REST APIs, JSON/HTTP handling, Authentication & OAuth flows, API testing & debugging, backend scripting for integrations

Data & Databases: SQL, RDBMS, MongoDB, data engineering foundations, database design & optimization

LLM / Applied AI: RAG system design, embeddings & vector databases, prompt engineering (agent flows), fine-tuning workflows (concepts), OpenAI, LangChain integration

Engineering Practice: Git version control, CLI-based tooling, debugging complex systems, script-driven automation pipelines, systems thinking for process automation

Current Courses & Certifications

In Progress: Harvard CS50, Data Structures & Algorithms (Python), Linear Algebra for ML, Machine Learning Specialization, RAG Systems, Fine-tuning LLMs, Backend Integration Workflows (REST, OAuth)

Planned: IBM Generative AI Engineering Professional Certificate, MySQL Certification (Oracle), Backend/API Engineering (freeCodeCamp), JP Morgan & Chase Virtual Program