

# ANKIT ISHWAR PATIL

Pune, Maharashtra, India

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## OBJECTIVE

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Experienced n8n Automation Engineer with hands-on expertise in designing, building, and optimizing complex automation workflows using n8n, Python, and JavaScript. Skilled in queue mode execution, Redis-based scaling, on-premise/self-hosted deployments, and REST/GraphQL API integrations. Strong background in AWS-based infrastructure and containerized deployments using Docker. Passionate about creating scalable, secure, and reliable automation systems powered by modern APIs and LLM-driven intelligence.

## SKILLS

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- **n8n Engineering:** Expert-level workflow design, queue mode & worker architecture, Redis-backed distributed execution, self-hosted on-premise deployment, workflow versioning & GitOps, Docker based n8n hosting, webhook management, error handling & retry logic
- **Workflow Automation & Integration:** n8n, make, Zapier, REST APIs, GraphQL, OAuth2, JWT, JSON, HTTP, Webhooks, Postman
- **Programming Languages:** Python, JavaScript, TypeScript, C, R (Basics)
- **Cloud & Infrastructure:** AWS (EC2, S3, Lambda, QuickSight, Glue), Azure (Data Factory, Synapse, AI Services), Docker, GitHub Actions
- **Distributed Systems & Queues:** Redis, Queue mode execution, concurrency management, retry strategies, distributed workflow patterns
- **Security & Architecture:** Secrets management, data classification, access controls
- **Databases:** MySQL, PostgreSQL, MongoDB, Vector Databases (ChromaDB, FAISS)
- **AI & LLMops:** LangChain, Hugging Face, NLP, LLMs, RAG pipelines, prompt engineering, function calling, LLM evaluation
- **Observability & Monitoring:** Workflow monitoring, logs, metrics, data pipeline observability, GitHub Actions-based alerting
- **Version Control & CI/CD:** Git, GitHub, GitHub Actions
- **Automation Tools:** Jupyter, Puppeteer, Selenium
- **Deployment:** Streamlit, Gradio, FastAPI
- **Soft Skills:** Problem-Solving, Analytical Thinking, Collaboration, Communication

## EXPERIENCE

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- **Harris Acquire Limited** Sep 2025 - Present  
*AI Automation Specialist* Remote, UK
  - Engineered expert-level n8n workflows for automated business research of UK-based companies, designing advanced multi-step pipelines and integrating data from multiple REST APIs and web sources.
  - Architected and deployed n8n in **queue mode** on AWS with **Redis** as the message broker, configuring worker nodes for distributed, concurrent workflow execution with fault tolerance and auto-retry mechanisms.
  - Successfully **self-hosted n8n on-premise on AWS EC2**, including full infrastructure setup, Docker Compose configuration, reverse proxy (Nginx), and automated workflow backups for high reliability and scalability.
  - Built automation pipelines to extract company registration details, PSC (Persons with Significant Control) and officer data, and generate targeted contact emails using OAuth2-authenticated REST APIs.
  - Integrated **Python and Puppeteer scripts via GitHub Actions (CI/CD)** to automate data collection on company turnover and employee size, enabling GitOps-style workflow deployment and version control.
- **GlobalBees** Feb 2025 - Aug 2025  
*Junior Associate – Automation & AI* Onsite, Pune
  - Built automation and AI workflows using **n8n, VoiceFlow, Retell AI, GitHub Actions, and Cron Jobs** to streamline operational processes across multiple brands.
  - Developed and deployed **AI-driven chatbots and voice agents** for four brands (UrbanGabru, UrbanYog, MakeMeBold, SeoulSkin) supporting order tracking, customer queries, product recommendations, and automated support using a **RAG-based retrieval system**.
  - Created a high-impact **AI Voice Agent for Abandoned Cart Recovery** using Retell AI, leveraging real-time customer and cart data to call users and send contextual WhatsApp Business API follow-ups, resulting in a **25–30% increase in recovery rates** and reducing manual follow-ups by 80%.
  - Built a **Python dashboard with a MySQL backend** to monitor call logs, sentiment analysis, customer responses, and recovery funnel performance for data-driven decision-making.
  - Improved automation scalability by integrating internal systems through REST APIs and event-driven triggers, enabling faster and more reliable workflows across teams.

PROJECTS

- **M&A Intelligence Automation System**  
*Tools: n8n, Google APIs, REST APIs, OAuth2, Webhooks, Python, GitHub Actions*
  - Built an end-to-end **n8n workflow** integrating Google News API, Google Sheets, and Gmail to identify, classify, and alert on Mergers & Acquisitions activity for UK-based companies.
  - Implemented **webhook-driven triggers**, OAuth2-secured API connections, and **error-handling with retry logic** to ensure workflow reliability at scale.
  - Automated contact data enrichment pipelines using **Puppeteer scripts**, orchestrated through GitHub Actions for scheduled data collection.
- **AIHireHub: AI-Driven Recruitment Platform with RAG**  
*Tools: Pandas, Streamlit, PyPDF2, LangChain, FAISS, Selenium, Google Gemini*
  - Developed an AI-powered recruitment platform leveraging **RAG (Retrieval-Augmented Generation)** with FAISS vector database for semantic resume-to-job matching and LLM-based recommendations.
  - Implemented **LLM function calling and prompt engineering** for structured resume analysis, demonstrating practical LLMOps and agentic orchestration patterns.
- **LexifyAI: AI-Powered Legal Assistant (Agentic RAG)**  
*Tools: Python, PyPDF2, Selenium, ChromaDB, LangChain, Llama*
  - Built an **agentic AI chatbot** using LangChain with ChromaDB for RAG-based retrieval over Indian legal documents, demonstrating LLMOps best practices including evaluation and prompt optimization.
  - Integrated **NLP models with LLM orchestration** for context-aware, real-time legal query responses, applying function calling and chain-of-thought prompting.

EDUCATION

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| • <b>Maharashtra Institute of Technology</b><br><i>Bachelor of Technology in Artificial Intelligence and Data Science</i> | <i>Dec 2021 – May 2025</i><br>Chhatrapati Sambhajinagar, India   |
| • <b>Maharashtra Institute of Technology</b><br><i>Honor in Cloud Computing</i>                                           | <i>March 2023 – May 2025</i><br>Chhatrapati Sambhajinagar, India |
| • <b>Udacity</b><br><i>Nanodegree in AI Programming with Python</i>                                                       | <i>June 2024 – Oct 2024</i><br>Online                            |

CERTIFICATIONS

- **Microsoft Certified: Azure AI Engineer Associate**
- **Microsoft Certified: Azure AI Fundamentals**
- **Microsoft Certified: Azure Data Fundamentals**
- **Microsoft Certified: Azure Fundamentals**
- **Oracle Cloud Infrastructure: Generative AI Certified Professional**
- **IBM Data Science Professional Certified**
- **NPTEL Certified: Data Analytics with Python**
- **NPTEL Certified: Big Data Computing**

HONORS AND AWARDS

- **AWS AI/ML Scholar**