

AMMAR AHMAD

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SUMMARY

AI Automation Engineer and n8n Specialist dedicated to replacing manual, repetitive work with intelligent, autonomous systems. I leverage Python, the OpenAI Agents SDK, and n8n to build custom workflows that operate 24/7 without human intervention. From complex RAG pipelines to fully autonomous customer support agents, I deliver scalable automation solutions that drive business efficiency.

SKILLS

AI & Agentic Systems: n8n (workflows, webhooks, API integrations), OpenAI Agents SDK, prompt engineering, RAG pipelines, multi-agent systems, Chainlit, CRM & Google workspace.
Programming & Data: Python (backend logic, custom n8n nodes), Pandas, NumPy.
Databases & Tools: Pinecone, Firebase, MongoDB, MySQL, Git/GitHub, VS Code, Jira, Slack.

WORK EXPERIENCE

AI & Automation Intern - National Center of Artificial Intelligence, (NCAI) UET Peshawar **Nov 2025 - Present**

- Deepened practical understanding of Natural Language Processing (NLP) pipelines, tokenization, context window management, and prompt engineering to optimize Large Language Model responses.
- Gained hands-on expertise in setting up Vector Databases and generating semantic embeddings, enabling efficient data storage and retrieval for AI knowledge bases.
- Mastered n8n for serverless backend logic, transitioning from basic linear flows to complex, conditional workflows that integrate external APIs and manage state across agent interactions.

PROJECTS

CISNR Intelligent RAG & Voice Agent

- Engineered a specialized conversational agent for CISNR by orchestrating n8n backend logic, utilizing Pinecone for high-precision institutional data retrieval and ElevenLabs to synthesize natural voice responses.
- Developed a responsive React frontend connected via webhooks, enabling a seamless multi-modal user experience where users can interact with the agent through both text and natural speech in real-time.

Full-Stack AI Chat Application

- Architected a scalable chat application using React and n8n, streamlining system architecture by replacing traditional server code with modular automation workflows for efficient message routing.
- Real-Time Webhook Integration: Engineered bi-directional communication between the frontend and backend logic via custom Webhooks, ensuring instant data synchronization and a responsive user experience.

Autonomous AI Lead Generation Agent

- Engineered a ReAct agent using n8n, and SerpAPI to autonomously scout web data, analyzing company profiles to extract key metrics (industry, size, location) and determine "High Value" status.
- Full-Stack Integration: Deployed a custom React frontend triggered via Webhooks, enabling real-time user input that executes the enrichment logic and automatically syncs structured, qualified lead data into Google Sheets.

EDUCATION

Bachelor of Science in Computer Science **SEP 2023 - OCT 2027**
University of Engineering and Technology, Peshawar