

Nikhil

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SUMMARY:

AI & Data Science undergraduate with hands-on experience building LLM applications, RAG pipelines, and real-time computer vision systems.

TECHNICAL SKILLS:

- **Frontend:** JavaScript, React Js
- **Backend:** Python, C, C++, Java (Basics), R (Basics)
- **DevOps:** Linux (Basics), Docker
- **Database:** MySQL, MongoDB

EXPERIENCE:

[\[Link\]](#) Excel-Based Fine Tuning Model – Personal Project

Tech Stack: Qwen3-4B-Instruct, QLoRA, PyTorch, Hugging Face, GGUF, Ollama

- Fine-tuned a 4B parameter LLM on ~1.2K Excel instruction–response pairs to assist with formulas, data analysis, and basic VBA tasks.
- Optimized for local CPU/GPU inference using quantization (GGUF Q4_K_M) and deployed via Ollama / llama.cpp.

[\[Link\]](#) ARIA – AI Desktop Assistant– Training Project

Tech Stack: Python, PyQt5, Local LLMs (LM Studio), MongoDB, Stable Diffusion, PyTorch

- Built a local AI agent for Windows that converts natural language into system commands and automation workflows.
- Designed an intent-classification pipeline using LLMs for command routing and task execution.
- Added image generation, macro automation, and persistent conversation storage.

[\[Link\]](#) PIXEDIT | Image Editor GUI APP – Training Project

Tech Stack: Python, PyQt5, PIL, PyInstaller

- Built a dark-themed PyQt5 image editor with real-time previews, filters, and transform tools.
- Designed a modular PyQt architecture separating UI, image processing, and crop logic, with a polished desktop UX including custom stylesheets and undo/reset controls upto 20 stacks.
- Integrated non-destructive editing features including crop, rotate, blur, sharpen, brightness, contract, solarize, invert, sepia, etc.

TRAINING:

Ariel Software Solutions Pvt. Ltd. Sector- 82, Mohali – Trainee

Duration: 1 month (FEB 2026 – MAR 2026)

- Built desktop applications using Python and PyQt5, including an AI assistant (ARIA) and an image editor (PIXEDIT).
- Implemented image processing workflows and interactive GUI features using PIL and OpenCV.

EDUCATION:

Chandigarh Group of Colleges, Landran | Bachelor of Technology in Artificial Intelligence & Data Science

G.M.S.S.S. Sector 33D, Chandigarh | 12th Grade