Nikhil

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SUMMARY:

Final-year AI & Data Science undergraduate with hands-on experience fine-tuning LLMs, building GenAI-powered desktop applications, and deploying models locally via Ollama. Shipped a QLoRA fine-tuned 4B model achieving 96% accuracy on Excel tasks and two production-grade Python/PyQt5 desktop apps during internship.

TECHNICAL SKILLS:

- **Languages:** Python, C, C++, R
- **Frameworks & Libraries:** PyQt5, PyTorch, PIL, OpenCV
- **AI/ML Tools:** Hugging Face, Ollama, LM Studio, Stable Diffusion, QLoRA, GGUF
- **Database:** MySQL, MongoDB
- **DevOps & Tools:** Docker, Linux, Git, PyInstaller

EXPERIENCE:

Excel-Based Fine Tuning Model | [**[HuggingFace Model↗]**](#)

  Tech Stack: Qwen3-4B-Instruct-2507, QLoRA, PyTorch, Hugging Face, GGUF, Ollama

- Fine-tuned a 4B parameter LLM on ~1.2K Excel instruction–response pairs covering formulas, data analysis, and VBA tasks.
- Achieved 78.7% training loss reduction (1.04→0.22) over 200 steps using Unsloth's 2x faster training pipeline.
- Quantized model to GGUF Q4_K_M reducing size by 34.5% (3.55GB→2.32GB) for local CPU/GPU deployment via Ollama.
- Scored 96% accuracy on 25-prompt standard eval and 80% on 5-prompt advanced eval spanning array formulas, VBA, and financial modelling.

ARIA – AI Desktop Assistant | [**[Github Repo↗]**](#)

  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.

PIXEDIT | Image Editor GUI APP | [**[Github Repo↗]**](#)

  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 10+ editing tools including crop, rotate, blur, sharpen, brightness, sepia, and invert.

TRAINING:

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

Feb 2026 – Mar 2026

- Deployed ARIA and PIXEDIT in a professional environment, applying modular design patterns and desktop UX principles.

CERTIFICATIONS:

- **Python for Data Science, AI & Development** – IBM (2024)
- **AI For Everyone** – DeepLearning.AI (2025)
- **Database Management System** – NPTEL (2025)

EDUCATION:

Chandigarh Group of Colleges, Landran Bachelor of Technology — Artificial Intelligence & Data Science | 2022 – 2026 | 74.7%

G.M.S.S.S. Sector 33D, Chandigarh 12th Grade | 78.8%