Laxmikant Nishad

Leeds, UK

📞 +44 7470398416 ✉ laxmikant.data@gmail.com 🔗 linkedin.com/in/laxmikant-nishad ⊙ github.com/lax-17

Summary

Applied AI/ML Engineer (MSc Artificial Intelligence) specializing in **large language models (LLMs)**, **Transformers**, and **multi-modal** systems. Built **end-to-end healthcare LLM** applications: **data curation**, **fine-tuning (QLoRA)**, **prompt engineering**, **evaluation with clinicians**, and **deployment packaging** (Docker, `llama.cpp` for offline inference). Designed **evaluation pipelines**, regression testing, and **safety/hallucination** checks; delivered benchmark-beating Transformer models (**0.350 macro-F1**) without personalization. Tech keywords: **PyTorch**, **Hugging Face Transformers/PEFT/Accelerate**, **bitsandbytes**, **RAG**, **JSON-structured outputs**, **DINOv2**, **ViT**, **OpenFace**. Seeking to build **production-ready, trustworthy LLM systems** at Big Tech scale.

Education

Sheffield Hallam University   **2025 − 2026**
MSc in Artificial Intelligence   *Sheffield, UK*

Ufa University of Science and Technology   **Sep 2019 − Jul 2023**
BSc in Information Technology and Mathematics (Distinction, GPA: 4.77/5)   *Sterlitamak, Russia*

Experience

Applied AI/LLM Engineer (Clinical Narratives Platform)   **Jun 2025 − Present**
Sheffield Hallam University   *Sheffield, UK*

− Built an **end-to-end healthcare LLM system**: **synthetic data generation**, **fine-tuning**, **prompt & context engineering**, **clinician evaluation**, and **deployment pipeline**.
− Created **600 structured clinical profiles** with **Gemini 1.5 Pro** (teacher); **validated directly by medical doctors** for fidelity and usefulness.
− Fine-tuned **Llama 3 8B Instruct** with **QLoRA** on A100 GPUs (**8192-token** context) for **schema-faithful JSON outputs** used in **EHR/RAG** workflows.
− Integrated the model into a working **website interface** (deployment paused due to **clinical data restrictions**).
− Focused on **LLM evaluation**, **regression tests**, **safety/hallucination** reduction, and **structured-output compliance**.

AI Researcher — Multi-modal Transformers   **Feb 2025 − Aug 2025**
Sheffield Hallam University   *Sheffield, UK*

− Designed a **hybrid Conv1D + Transformer sequence model** fusing **DINOv2 image embeddings** with **MediaPipe** features.
− Implemented **normalization**, **EMA**, **threshold calibration**, and light **TTA** for robust evaluation.
− Achieved **0.350 macro-F1** and **53.4% accuracy** on a 7-class, 2,152-sample dataset; **outperformed ATL-BP baseline** (~0.25 F1) and **personalized model** (0.308 F1) *without* per-user adaptation.
− Compared **unimodal vs multi-modal** pipelines (**ViT-FER, DINOv2, OpenFace**); authored recommendations for next-step modalities.

Junior Developer Intern   **Oct 2023 − Dec 2023**
Tan Theta Software Studio   *Surat, India*

− Built **SQL schemas** and **automated data pipelines** for a blockchain app; implemented **web scraping** for data ingestion.

Industry Collaboration Coordinator   **Jan 2022 − Jun 2022**
Ufa University of Science and Technology   *Sterlitamak, Russia*

− Secured **5+** industry-led projects; managed partnerships from outreach to kickoff, aligning academic and industry goals.

Selected Projects

fMRI-Based Image Reconstruction (GANs) | *PyTorch, StyleGAN2, U-Net, PatchGAN*   **2025**
− Benchmarked GANs on Algonauts 2023; achieved stable training with **U-Net + PatchGAN + LSGAN**; analyzed domain mismatch/instability.

Object-Tracking Drone Navigation | *Python, OpenCV, Sensor Fusion*   **2025**
− Built real-time drone pursuit with PID control; v2 added **GPS + vision fusion** for robustness.

Technical Skills

LLMs & NLP: Llama 3 8B, Gemini 1.5 Pro, **Transformers**, **Hugging Face**, **prompt engineering**, **fine-tuning (QLoRA)**, long-context, **JSON outputs**, **RAG integration**

ML/AI: **PyTorch**, PEFT, Accelerate, bitsandbytes, **evaluation pipelines**, calibration, **regression testing**, **multi-modal fusion**, GANs

Computer Vision: **DINOv2**, ViT/ViT-FER, MediaPipe, OpenFace, OpenCV, real-time tracking

Deployment: **Docker**, `llama.cpp` (offline inference), CUDA, Git, Linux

Programming: Python, SQL, JavaScript

Certifications

- DeepLearning.AI: Neural Networks & Deep Learning (2023)
- DeepLearning.AI: Improving Deep Neural Networks (2023)
- DeepLearning.AI: Convolutional Neural Networks (2023)
- Kaggle: Intro to ML; Intermediate ML; Data Visualization
- 365 Data Science Bootcamp (2022)
- MongoDB: M001 Basics (2021)

Leadership / Extracurricular

AI Club, Computer Science Club, Coffee Club, Physics Discussions　　　　**2023 – Present**
Member　　　　*Sheffield Hallam University*

– Organised technical talks, coding challenges, and research paper discussions; promoted faculty–student collaboration.

Honors & Awards

– **Transform Together Scholarship** — academic excellence and leadership potential.

– **Academic Excellence Award (Distinction)** — top performance in BSc IT & Mathematics.