Naman Nanda

+91 8115700008 namannanda5657@gmail.com linkedin.com/in/namannanda3 github.com/nimo-codes

Education

SRM Institute of Science and Technology **Expected 2026**
Bachelor of Technology, Computer Science w/s AIML *9.24 CGPA*

Experience

Australian National University **June 2025 - Present**
AI/ML Research Intern *Canberra, Australia*

- Spearheading the fine-tuning of a domain-specific **AstroLLaMA LLM** on scientific literature using **QLoRA**, **TokenizerFast** and **PEFT**, optimizing for low-resource environments with parameter-efficient training.
- Deployed the model via a **Flask-based REST API**, presented findings in research meetings, and authored a detailed technical report outlining methodology and performance benchmarks.

Renault Nissan **November 2024 - January 2025**
Software Engineer Intern *Chennai, India*

- Automated financial data workflows using **Python** and **procedural SQL**, reducing processing time from **7 hours to 30 seconds** (99.9% improvement)
- Built scalable ETL pipelines for **60K+ row datasets** with dynamic updates, leveraging **SQL**, **Unix scripting** and distributed system principles.

Samsung Prism **March 2024 - July 2024**
ML Research Intern *Chennai, India*

- Fine-tuned **Stable Diffusion** and **DreamBooth-based GANs/cGANs** on a 50-image product dataset using **LoRA**, improving image resolution and performance under constrained GPU-RAM conditions.
- Integrated **LLaMA-based prompt generation** into a **text-to-image pipeline** and optimized **img-to-img** and **Refiner training**, with a **patent filing and research publication** currently underway.

Projects

FireWatch | *firewatch-hosted.vercel.app*

- Built a distributed wildfire detection system using **NASA satellite imagery** and a fine-tuned **VGG-19 CNN**, achieving **97%+ test accuracy** on a dataset of 42,000 images.
- Deployed the model with real-time **MLOps workflows**, enabling scalable live monitoring and inference via a production-ready web interface.

ContextualBridge | *context-bridge.vercel.app*

- Fine-tuned **LLaMA 3 (8B)** on proprietary enterprise data, improving response relevance and domain accuracy for bilingual AI assistants.
- Applied **INT8 quantization with PTQ** for efficient inference and integrated **Google TTS** for multilingual support in **French, Hindi, and English.**

Formulary Lens | *v0-ai-us-formulary-ey5461.vercel.app*

- Designed a no-code, AI-powered analytics platform using **few-shot prompting** and **Flask APIs**, enabling real-time **Medicare Part D formulary insights** via **GCP MySQL + Tableau** integration.
- Deployed a **Mistral-7B-backed** NLP system to generate predictive market access insights, automating coverage analysis and trend forecasting.

Technical Skills

Languages: Python, C/C++, SQL
Data Tools: Pandas, NumPy, Matplotlib, Tableau
Technologies/Frameworks: PyTorch, TensorFlow, Scikit Learn, LangChain, RAG, LoRA, NLTK, Hugging Face
Developer Tools: Flask, REST APIs, Kubernetes, Google Cloud
Automation: Selenium, UiPath, Power Automate, BeautifulSoup4, Unix

Leadership / Extracurricular

- Selected as a top 20 student nationally for the fully funded Future Research Talent (FRT) Program at ANU, Australia.
- Co-authored paper: "ViDAS: Vision-based Danger Assessment and Scoring," ICVGIP 2024.
- Winner, CodeFest 2025 – developed an AI platform for Medicare Part D formulary automation.
- Solved 260+ DSA problems across LeetCode and GeeksforGeeks.