NAMAN NANDA

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EDUCATION

Bachelor of Technology, Computer Science w/s AIML — Expected 2026
SRM Institute of Science and Technology — *9.23 CGPA*

EXPERIENCE

Software Engineering Intern — Nov 2024 - Jan 2025
Renault Nissan — *Chennai, IN*

- Automated financial data workflows using **Python** and **procedural SQL**, reducing processing time by 99.9% (from 7 hours to 30 seconds).
- Designed scalable pipelines to handle large-scale workflows(10K+ rows) with dynamic updates, leveraging **SQL databases** and Unix scripting for distributed environments.

ML Research Intern — Mar 2024 - Jul 2024
Samsung Prism — *Chennai, IN*

- Developed **GANs and cGANs** using a subject-driven approach (Dreambooth's method), refining image generation quality by improving resolution by 512 pixels. Integrated a text-to-image pipeline with **LLaMA and Stable Diffusion** for superior prompt generation.
- Fine-tuned a Stable Diffusion model on a 50-image product dataset with LoRA, optimizing the img-to-img pipeline and Refiners training for superior performance while efficiently managing low GPU-RAM usage.
- Currently in the process of filing a **worldwide patent** with **Samsung R&D** for the innovation; **research paper** submission underway to publish the methodology and results.

PROJECTS

FireWatch (firewatch-hosted.vercel.app)

- Developed a distributed system using NASA satellite data for real-time fire detection with a fine-tuned VGG-19 model, achieving 95%+ accuracy and enabling scalable, real-time deployment with MLOps practices.
- Implemented a system using a pre-trained VGG-19 neural network, fine-tuned on 42,000 images getting a test accuracy greater than 95%.

Formulary Lens (v0-ai-us-formulary-ey5461.vercel.app)

- Developed a real-time Medicare Part D analytics platform using Tableau for visualization and **Google Cloud MySQL** for centralized **ETL-driven data integration**, enabling AI-powered insights for pharmaceutical market access.
- Engineered a no-code AI-driven analytics platform using **few-shot prompting** for **dynamic SQL execution** on GCP MySQL, seamlessly integrated with **Tableau via API** for real-time formulary intelligence.
- Built a **Flask API** powered by **Mistral 7B** to analyze formulary data, generating predictive market insights and future drug coverage trends for strategic decision-making.

HFT-Optima

- Developed a **Deep Q-Network (DQN)** for high-frequency trading (HFT), enabling rapid decision-making and execution in milliseconds.
- Leveraged **AWS EC2** for model training and real-time data computation. Implemented TensorFlow and PyTorch-based DQNs to optimize high-frequency trading decision-making, reducing latency by **5 milliseconds**.
- Integrated risk management features within the DQN model to dynamically adjust trade sizes based on real-time market volatility, helping to mitigate risks and reduce drawdowns during periods of market instability.

TECH STACKS

Programming	Python,C/C++
Automation	Selenium, UiPath, Power Automate, BeautifulSoup4, Unix
Backend Development	Flask, REST APIs
Database Management	MySQL, MongoDB, Oracle
Machine Learning Frameworks	PyTorch, TensorFlow, Scikit Learn, LangChain, RAG, LoRA
MLOps	Model deployment, workflow automation, real-time scaling
Data Tools	Pandas, NumPy, Matplotlib, Tableau

PROFESSIONAL CERTIFICATIONS

- Oracle Cloud Infrastructure Certified Foundations Associate — Link
- Fortinet Certified Associate in Cybersecurity — Link

PUBLICATIONS

- Pranav G, Advith K, Naman N (2024) *"ViDAS: Vision-based Danger Assesment and Scoring"* In: Indian Conference on Computer Vision, Graphics and Image Processing (ICVGIP)

KEY ACCOMPLISHMENTS AND LEADERSHIP ROLES

- Selected among the top 20 students from India's premier science and technology institutes for a **fully funded research internship at Australian National University, Canberra** under the Future Research Talent (FRT) Program, starting in **June 2025**.
- President at Next Gen AI Club, organizing the university's largest hackathon and collaborating with professors on innovative coding and machine learning projects.
- Winner of CodeFest 2025, Developed an AI-powered platform for automating Medicare Part D formulary updates, enhancing market access insights and strategic decision-making.
- Member of QS awarded Next Tech Lab, the only organization from India to win the QS Reimagine Education 2018 award.
- Developed a complete website in collaboration for an NGO.
- Volunteering for the Art of Living NGO for the past 5 years, contributing to community welfare and mental well-being initiatives.