

# Aadityan Gupta

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Data Scientist/ML Engineer skilled in building scalable AI/ML systems, APIs, and user-facing apps (Python, FastAPI, LangChain, CUDA, Docker, cloud). Specialized in rapid prototyping, MLOps, and delivering business impact for enterprise clients.

## Education

- **Shiv Nadar Institute Of Eminence** 2021 - 2025  
B.Tech in Electronics and Communication Engineering, Specialization in Electric Vehicles
- **Mayoor School, Noida**
  - CBSE Class 12th (Science) - 87% 2019 - 2021
  - CBSE Class 10th - 87% 2018 - 2019

## Experience

- **Metlife, Noida** – AI Software Developer Intern Apr 2025–Present
  - Optimized AI-powered policy document extraction (LangChain, LangGraph, LangSmith), boosting accuracy from 84% to 94% and cutting endorsement processing from 1 hour to 2 minutes.
  - Automated policy validation for 100+ monthly endorsements driving workflow efficiency for enterprise clients.
  - Led requirements and compliance alignment with Brazil/Mexico teams for global AI rollout.
  - Building a production-grade chatbot (LangChain) integrated with extraction pipelines for real-time, high-accuracy policy Q&A and customer support.
- **Xoriant Solutions, Pune** – ML Engineer Intern Jan–Apr 2025
  - Built predictive maintenance ML pipeline (Python, Azure CI/CD) for 43k+ industrial sensors, achieving 96% accuracy and cutting downtime by 35%.
  - Delivered real-time anomaly dashboards (Plotly, Python), empowering ops teams to act on critical failures and optimize preventive schedules.
- **Technavia India Pvt. Ltd, Gurugram** – Robotics & Control Intern May–Jul 2023
  - Designed and simulated PLC/HMI-driven robotic systems, integrating servo controls for manufacturing automation and technical documentation for industrial deployment.

## Key Projects

- **Full-stack Voice-to-Image AI App (In Progress)**
  - Production-grade app with FastAPI/LangChain backend, ChromaDB, JWT auth, OpenAI Whisper for voice-to-text, and Imagen4/DALL-E3 for image gen; modular, scalable, and secure.
  - Responsive HTML/CSS/JS frontend with real-time audio, instant image rendering, and payment flows; glass-morphism UI, mobile-optimized.
- **Chatbot with OpenAI/LangChain**
  - Modular chatbot using OpenAI APIs and LangChain, supporting context-aware conversations with secure API key management and scalable ChromaDB backend.
  - Enabled real-time document retrieval, dynamic workflow automation, and robust session management for business-critical applications.
- **Local AI Noise Cancellation App**
  - Developed a deep learning-based speech denoising app (U-Net CNN, PyTorch), enhancing voice quality by 88% PESQ and 94%+ noise reduction.
  - Implemented GPU-accelerated audio pipelines (librosa, CUDA), demonstrating practical ML impact on accessibility and remote work.
- **GPU Medical NER Pipeline**
  - Built GPU-accelerated NER system (PyTorch, Transformers, CUDA) for biomedical text, achieving 81% F1 (drugs) and 70% (diseases) on CADEC with SNOMED/MedDRA mapping.
  - Automated batch entity extraction and clinical report generation, enabling scalable analysis of health data.

## Technical Skills

**Languages:** Python, C, SQL, HTML, CSS, JS, MATLAB

**Frameworks:** FastAPI, Flask, PyTorch, TensorFlow, LangChain, Transformers, OpenCV

**Platforms:** Docker, Kubernetes, Azure, GCP, Git, SQLite, ChromaDB

**Other:** MLOps, CUDA, Jupyter, Pandas, NumPy, Plotly, Librosa, MQTT, Stripe/PayPal API