

Sainy Mishra

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Education

Vellore Institute of Technology, Chennai , B.Tech in Electronics and Computer Engineering	2022 – 2026
• CGPA: 8.54	
Apeejay School Panchsheel Park Sheikh Sarai, Delhi , Class XII (CBSE)	2022
• Percentage: 92.6%	
Apeejay School Panchsheel Park Sheikh Sarai, Delhi , Class X (CBSE)	2020
• Percentage: 96.6%	

Technical Skills

Machine Learning: Python, Numpy, Pandas, Scikit-learn, XGBoost, SARIMA, Model Evaluation, Hyperparameter Tuning

Deep Learning: CNN, SNN, TensorFlow, NLP, LLM, GAN, Knowledge Distillation

Frontend: Canva, Figma, HTML, CSS, JavaScript

Languages: C++, C, Java, Python, R

Database: SQL, MongoDB

Version Control / CI: Git, GitHub, GitHub Actions

Certifications

- AI-900 Microsoft Azure AI Fundamentals (**Score: 850/1000**)
- Complete AI and ML Data Science Bootcamp (Udemy)
- NPTEL Python for Data Science (60%)
- Machine Learning A-Z: AI, Python R + ChatGPT Prize (Udemy)

Projects

Graph-Based LLM Document Assistant	July 2025 - Present
• Built a graph-based RAG pipeline integrating LLM for contextual retrieval	
• Explored knowledge graph construction and retrieval methods to enhance LLM responses	
Rare Lung Pattern Detection with GAN-based Augmentation	July 2025 – Present
• Designing a conditional GAN pipeline to synthesize fibrotic CT scan patches and balance post-COVID datasets	
• Training a 3D CNN classifier to improve sensitivity and ROC-AUC in detecting pulmonary fibrosis	
BB84 QKD Simulation	March 2025
• Simulating the BB84 quantum key distribution protocol with eavesdropper detection via QBER	
• Building classification models (Neural Network, Random Forest, XGBoost) trained on 10,000+ samples to detect attacks	
Rainfall Prediction via Time Series Forecasting	January 2024
• Engineering a hybrid SARIMA-XGBoost model to forecast drought and water scarcity in 50+ regions, supporting precision agriculture	
• Developing a web platform using Streamlit, Folium, and Leaflet for real-time map visualizations via REST API	
Leadership Experience	
Advisory Board Member , Mathematics Club, VIT Chennai	July 2025 – Present
• Guiding strategic planning, mentorship, and event execution for 90+ member club.	
• Collaborating with faculty and alumni to secure resources and expand networking opportunities for members.	
Vice President , Mathematics Club, VIT Chennai	July 2024 – July 2025
• Leading a 90+ member team organizing events for TechnoVIT and Vibrance , with 200+ participants across technical and cultural fests	
• Conducted 4 chess tournaments and a hackathon involving 20+ teams, enhancing team building and leadership in juniors	

Achievements

- Winner of **Sponsor Track at FrostHacks 2024** (MLH + IARE Hyderabad), beating 100+ teams
- Ranked **Top 120 out of 547** teams in SIH 2024 Internal Hackathon (VITISH) for Agricure