

SUSHREE NADIMINTY

Buffalo, New York | sushreen1@gmail.com | 716-910-7704 | <https://www.linkedin.com/in/sushreen> | <https://github.com/sushree-n> | [Portfolio](#)

EDUCATION

University at Buffalo, The State University of New York

Masters of Science in Computer Science and Engineering, AI/ML Specialization

Expected Dec 2025

GPA - 3.79/4

Xavier Institute of Engineering, Mumbai University

Bachelor in Engineering (Computer Engineering)

June 2023

GPA - 9.44/10

WORK EXPERIENCE

Relate CX - Buffalo, New York (Remote)

AI Engineer Intern

May 2025 - Present

- **Fine-tuned** Gemini Flash using **PEFT**, optimizing job type classification for 200+ HVAC/Electric/Plumbing companies across 40K+ unstructured call records.
- **Engineered** zero/few-shot prompts, boosting LLM accuracy and cutting manual tagging time by 60%.
- Deployed and scaled models using GCP Vertex AI and GenAI SDK, automating inference pipelines for production-level usage.

M2P Fintech - Mumbai, India

Software Developer

Jan 2024 - July 2024

- Played an integral role as part of **Core Banking Solution** team at M2P Fintech, optimizing code for CBS turing software across 70+ co-operative banks in India, ensuring compliance with RBI and NPCI standards.
- Utilized **Java Spring** for backend and **Node.js/Express.js** for frontend, developing new features, fixing bugs, and improving system performance. Collaborated with cross-functional teams like KYC, Payments and ISO to ensure timely delivery of requirements.

Quantiphi Analytics - Mumbai, India

July 2023 - Jan 2024

Platform Engineer Intern

- **Analyzed** and implemented cloud-based solutions, primarily focusing on AWS and GCP platforms.
- **Designed** an efficient workflow, integrating security and privacy features, and optimizing costs using various AWS services such as Cognito, API Gateway, DynamoDB, S3, Amplify, Sagemaker, among others.

ACADEMIC PROJECTS

Drug Discovery Using Deep Learning

Jan 2025 – May 2025

UB CSE Demo Days | PyTorch, GNN, BiGRU, Transformer, LLM, React, Flask

- Built a **multimodal** deep learning pipeline combining GIN, BiGRU, Transformer, and MLP to predict molecular drug-likeness properties (logP/logD/logS) with $R^2 > 0.87$ across Delaney, logD74, and SAMPL datasets.
- **Integrated DeepSeek V3** LLM into a full-stack Flask + React web app to auto-generate scientific reports from molecular predictions using structured prompt engineering, enabling real-time analysis and interpretability for biomedical researchers.

QuizzBee - AI-Powered Study Assistant

Feb 2025

AI for Good Hackathon | HuggingFace, Django, React

- **Developed** an AI-driven web app that converts lecture transcripts into personalized quizzes using four transformer models: **DeBERTa**, **RoBERTa**, **FLAN-T5**, and **T5-QG**.
- Created a Django backend and React frontend for seamless quiz generation; presented to a panel of academic and industry judges.

Audio Adversarial Attacks and Defence

July 2022- April 2023

Deep Learning, B.E. Major Project

- **Designed** an end-to-end system to generate and defend against targeted audio adversarial attacks using CTC Loss, DeepSpeech ASR, and iterative gradient perturbations.
- **Built** a six-layer neural network to learn logit-level transcriptions, and deployed a Flask app with psychoacoustic masking via AMR/MP3 encoding.
- **Published** findings in the **International Journal of Innovative Research in Technology, Volume 9 Issue 11, April 2023**.

Alphabet Doodle Recognition

March 2025

Personal Project | ResNet18, Flask, Hugging Face Spaces

- **Trained** a custom ResNet18 CNN on the EMNIST Letters dataset (26 classes), achieving 95.13% accuracy in recognizing canvas-drawn lowercase English letters.
- **Deployed** as a live web app on Hugging Face Spaces using Flask and a canvas UI for real-time prediction and interactive usage.

BuffaLingo - LLM-Powered Word Game

April 2025

Personal Project | Mistral 7B, React, Flask, OpenRouter

- **Created** a sarcastic, culturally-themed LLM game using Mistral 7B via OpenRouter, judging user inputs with humor and location-aware prompts.
- Designed a full-stack app with animations, scoring logic, and real-time prompt interaction; deployed frontend and backend on Render.

SKILLS

- **Languages & Tools:** Python, Java, JavaScript, C++, SQL, Git, Docker, Postman, REST APIs
- **AI/ML & Data:** PyTorch, TensorFlow, Keras, HuggingFace, scikit-learn, OpenCV, PEFT, Prompt Engineering, LLMs, NLP, Computer Vision
- **Web & Cloud:** Flask, Django, React, Node.js, GCP (Vertex AI, GenAI SDK), AWS (SageMaker, Cognito), Microsoft Azure.

CERTIFICATIONS

Microsoft Azure AI Engineer Associate (AI 102) Certification (2025) | Microsoft Azure AI Fundamentals (AI 900) Certification (2021) | Google Cloud Big Data and Machine Learning Fundamentals, Coursera (2023) | AWS VPC and Networking, Udemy (2023)