

Shubh Rajiv Sudan

585-415-8116 | ss2401@rit.edu | [LinkedIn](#) | github.com/shubhsudan | Rochester NY

EDUCATION

Rochester Institute Of Technology <i>Masters In Artificial Intelligence</i> GPA: 3.9/4.0	Rochester, NY Aug. 2025 – Present
Symbiosis Institute Of Technology <i>Bachelors In AI & ML</i> Honors in Cloud Computing	Pune, IND Aug. 2021 – Aug 2025

TECHNICAL SKILLS

Languages: Python, SQL, C++, JavaScript
Machine Learning: PyTorch, TensorFlow, Scikit-learn, Pandas, NumPy
AI Concepts: Generative Adversarial Networks (GANs), Deep Learning (CNN, LSTM), NLP, Computer Vision
Cloud & DevOps: AWS, Microsoft Azure, Google Cloud, Git/GitHub, Render
Web & Databases: Flask, REST APIs, React, Node.js, MySQL, MongoDB, SQLite
Analytics: Power BI, Microsoft Excel, Snowflake

EXPERIENCE

Diaeto Technologies Pvt. Ltd. <i>Research And Development Intern</i>	Pune, India Aug 2024 – May 2025
<ul style="list-style-type: none">Engineered an XGBoost classifier on Google Cloud to automate candidate screening, reducing manual review time by streamlining job role matching to their personality, deployed via Render.Integrated Google Vision OCR and OpenAI APIs into a medical mobile application to digitize patient records.Managed the procurement and configuration of 120+ mobile devices, negotiating vendor contracts to optimize logistics for the organization.Led a team of 6 interns through the SDLC, collaborating with the CEO to align technical deliverables with business KPIs.	

PROJECTS

Medical Image Augmentation using WGAN <i>Python, PyTorch, WGAN, CNN</i>	Aug 2025 – Dec 2025
<ul style="list-style-type: none">Engineered a Wasserstein GAN (WGAN) to synthesize high-fidelity medical images, creating a "Gold Standard" augmentation pipeline for scarce datasets.Architected an optimized CNN classifier by doubling model depth and replacing LRN with Batch Normalization, achieving peak accuracy of 80%.Validated synthetic data efficacy by training a baseline model on WGAN-augmented samples, boosting baseline performance from 27% to 65%.Optimized CNN model with authors image augmentation technique yielded an accuracy of 80% whereas the optimized model with images augmented through WGAN yielded an accuracy of 75%.	

Wind Turbine Damage Prediction <i>Python, TensorFlow, ResNet50, VGG-16</i>	Jun 2023 – Dec 2023
<ul style="list-style-type: none">Developed a predictive maintenance system using Deep Learning to classify turbine blade defects (erosion, edge damage) from inspection imagery.Benchmarked performance of custom Sequential CNNs against Transfer Learning architectures (VGG-16, ResNet), achieving optimal results with ResNet.Optimized model evaluation using Precision, Recall, and F1-Score metrics to minimize false negatives in critical damage detection.	

Hinglish Chatbot Using BERT <i>Python, PyTorch, Transformers, NLP</i>	Jun 2023 – Dec 2023
<ul style="list-style-type: none">Fine-tuned a BERT model on a large-scale Code-Mixed (Hinglish) corpus to engineer a context-aware conversational agent.Designed a custom Encoder-Decoder architecture to handle bilingual input sequences, achieving 80% accuracy in intent recognition tasks.Processed unstructured text data using Pandas and custom tokenizers to optimize training pipelines for localized language nuances.	

CERTIFICATIONS

Forward Learner Program <i>McKinsey.org (Business Strategy & Leadership)</i>	Issued 2025
---	-------------