

Roger Richard Demello

Aspiring Software Developer | C++ Enthusiast | ML Aspirant | AWS Cloud Practitioner
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PROFESSIONAL SUMMARY

Aspiring software developer with strong C++ and Python skills and a growing focus on machine learning. Experienced in developing AI-driven healthcare and automation solutions. Skilled in data analysis, cloud computing (AWS), and applying software engineering principles to real-world applications.

TECHNICAL SKILLS

Programming Languages: C, C++, Python, Java

Machine Learning & AI: CNN, RNN, Transformers, Prompt Engineering, Libraries, TensorFlow, Keras

Cloud Computing: AWS (EC2, S3, Lambda, IAM, RDS, CloudWatch, VPC)

DevOps & Tools: Git, GitHub, CI/CD

Software Engineering Concepts: OOP, Data Structures & Algorithms, DBMS, Operating Systems

EDUCATION

Shri Ramdeobaba College of Engineering and Management

Nov 2022 – May 2026

- Bachelor of Technology in Electronics and Communication
- Minor in Artificial Intelligence and Machine Learning

CGPA: 8.73

CGPA: 9.5

PROJECTS

LifePulse - AI-Powered Health Analytics [[GitHub](#) | [Live Demo](#)]

- Technologies:** Flask, Python, TensorFlow, Scikit-Learn, XGBoost, Pandas, Google Gemini AI, Rule-Based Engine
- Built ML-driven health modules (health score, heart disease, sleep disorder, migraine) and a nutrition tracker with actionable recommendations.
- Developed ensemble models and prioritized model accuracy; model artifacts and deployment using Render.
- Integrated rule-based logic and external LLM assistance for personalized recommendations and explanations.

ImageToToonArt - GAN / Photo-to-Cartoon Converter [[GitHub](#)]

- Technologies:** FastAPI, OpenCV, PyTorch, NumPy, Pillow
- Transformed real-world photos into high-quality cartoon-style images across 10 distinct styles.
- Built a production-ready web app and REST API with drag-and-drop uploads, real-time processing, and before/after comparisons.
- Enabled optional AI-powered style models and high-quality downloadable outputs for demonstrations and previews.

EXPERIENCE

Machine Learning Intern

May 2025 – July 2025

CFM, RCOEM

- Enhanced an ML-based tool to predict sleep disorders using lifestyle and health data.
- Attained 87% accuracy in predicting sleep disorders by analyzing factors such as stress, sleep duration, and blood pressure.
- Utilized Python, Scikit-Learn, and Pandas for model development and data analysis.

TRAINING

AWS Cloud Computing Training

March 2025 - April 2025

- Gained hands-on experience with core AWS services such as EC2, S3, RDS, IAM, VPC, and CloudWatch.
- Designed and deployed a scalable web application architecture leveraging Auto Scaling and Load Balancer.
- Implemented secure access management using IAM roles, policies, and multi-factor authentication (MFA).

CERTIFICATIONS

- AWS Certified Cloud Practitioner** - Amazon Web Services
- Introduction to Machine Learning on AWS - Coursera/AWS

Issued: Oct 2025

Completed: July 2025

ADDITIONAL INFO

- NCC 'A' and 'B' Certificate holder.
- Currently serving as an NCC Cadet.
- Developed leadership, discipline, and teamwork through active NCC training and drills.