Roger Richard Demello

Aspiring Software Developer | C++ Enthusiast | ML Aspirant | AWS Cloud Practitioner
+91 94217 78898 | Portfolio | Mail | Linkedin | GitHub | Leetcode | CodeChef | Codeforces

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: Scikit-Learn, TensorFlow, Keras, Pandas
Cloud Computing: AWS (EC2, S3, Lambda, IAM, RDS, CloudWatch, VPC)
DevOps & Tools: Git, GitHub, AWS CLI
Software Engineering Concepts: OOPs, Data Structures and Algorithms, DBMS, OS

Education

Shri Ramdeobaba College of Engineering and Management Nov 2022 – May 2026
- Bachelor of Technology in Electronics and Communication CGPA: 8.76
- Minor in Artificial Intelligence and Machine Learning CGPA: 9.5

Projects

LifePulse – AI-Driven Health Monitoring Platforms [***GitHub*** | ***Live Demo***] Jan 2025 – July 2025
- **Technologies:** Flask, Python, TensorFlow, Scikit-Learn, XGBoost, Pandas, Google Gemini AI, Rule-Based Engine
- Developed end-to-end AI-powered health assessment platforms combining machine learning and rule-based systems to provide personalized health insights.
- Implemented ML models for disease risk prediction, lifestyle analysis, and health scoring, achieving up to 91% accuracy across modules.
- Integrated Google Gemini AI for intelligent nutrition and wellness recommendations.
- Designed and deployed scalable Flask web applications on Render with CI/CD automation via GitHub.

GAN for Image Generation Jan 2025 – June 2025
- **Technologies:** TensorFlow, Keras, Python
- Improved a Generative Adversarial Network (GAN) to generate realistic images from random noise.
- Implemented both Generator and Discriminator models, trained to enhance image realism using TensorFlow.
- Demonstrated high-quality image generation results on the MNIST dataset, showcasing effective deep learning techniques in image synthesis.

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

Certifications

- **AWS Certified Cloud Practitioner** – Amazon Web Services *Issued: Oct 2025*
- Introduction to Machine Learning on AWS – Coursera/AWS *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.