

# 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 building AI-driven solutions for healthcare and automation. Skilled in data analysis, cloud computing (AWS), and developing practical, 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)  
**Version Control & DevOps Tools:** GitHub, AWS CLI  
**Software Engineering Concepts:** OOPs, Data Structures and Algorithms, DBMS, OS

## EDUCATION

<b>Shri Ramdeobaba College of Engineering and Management</b>	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

<b>Vitarithm – AI &amp; Rule-Based Health Monitoring System</b>	May 2025 - July 2025
<ul style="list-style-type: none"><li>• <b>Technologies:</b> Python, TensorFlow, Pandas, Rule-based Engine, Scikit-Learn</li><li>• Developed a Smart Health Calculator to analyze user lifestyle and body data.</li><li>• Providing key health metrics along with personalized advice aligned with WHO guidelines.</li><li>• Combined AI models with rule-based logic to assess sleep patterns, activity levels, and dietary habits.</li><li>• Delivered 87.1% accuracy in detecting lifestyle risks using real-time biometric and behavioral data.</li></ul>	
<b>GAN for Image Generation</b>	Jan 2025 – June 2025
<ul style="list-style-type: none"><li>• Improved a Generative Adversarial Network (GAN) to generate realistic images from random noise.</li><li>• Implemented both Generator and Discriminator models, trained them to improve image realism using TensorFlow/Keras.</li><li>• Realized image generation results on the MNIST dataset, demonstrating high-quality results and effective deep learning techniques in image synthesis.</li></ul>	

## EXPERIENCE

<b>Machine Learning Intern</b>	May 2025 – July 2025
<i>CFM, RCOEM</i>	
<ul style="list-style-type: none"><li>• Enhanced an ML-based tool to predict sleep disorders using lifestyle and health data.</li><li>• Attained 87% accuracy in predicting sleep disorders by analyzing factors such as stress, sleep duration, and blood pressure.</li><li>• Utilized Python, Scikit-Learn, and Pandas for model development and data analysis.</li></ul>	

## TRAINING/SEMINARS

<b>AWS Cloud Computing Training</b>	March 2025 - April 2025
<i>RCOEM</i>	
<ul style="list-style-type: none"><li>• Gained hands-on experience with core AWS services: EC2, S3, RDS, IAM, VPC, and CloudWatch</li><li>• Designed and deployed a scalable web application architecture using Auto Scaling and Load Balancer</li><li>• Implemented secure access management with IAM roles, policies, and multi-factor authentication (MFA)</li></ul>	

## CERTIFICATIONS

• <b>AWS Certified Cloud Practitioner</b> – Amazon Web Services	<i>Issued: Aug 2025</i>
• Introduction to Machine Learning on AWS – Coursera/AWS	<i>Completed: July 2025</i>

## AWARDS / ACHIEVEMENTS

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