

NIVEDITHA PULIGUNDLA

Halifax, Nova Scotia

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EDUCATION

~ Bachelor of Technology in Computer Science and Engineering

PES University, Bangalore **CGPA: 9.23/10**

2020 - 2024

Awards & Honors

- MRD Scholarship (Top 20%) - All semesters

- Distinction Award - All semesters

~ Master of Applied Computer Science

Dalhousie University, Halifax **Current GPA: 4.18/4.30**

2024 - Ongoing

WORK EXPERIENCE

~ AI Engineer Intern (Co-op)

September, 2025 - Ongoing

Secure Engage, Toronto, Canada – Remote

- Built scalable client-facing UI components using vO and modern frontend frameworks.
- Optimized AI-generated compliance reports with prompt engineering and RAG for frameworks like ISO, SOC 2, and SEAL.

- Partnered with auditors to refine compliance logic and reporting workflows.
- Shaped system architecture by integrating AI-driven risk assessment modules into core application logic.

~ Software Developer Intern

January, 2024 – June, 2024

Hiver, Bangalore, India

- Developed and integrated APIs, improving platform functionality and user experience.
- Integrated Bifrost-JS for chat authentication, boosting efficiency.

- Implemented unit tests, achieving 75% code coverage, enhancing backend maintainability.
- Enhanced the data export feature by extending data coverage, improving internal reporting.

~ Python Teaching Assistant

August, 2023 – November, 2023

PES University, Bangalore, India

- Guided students during lab sessions by addressing queries, providing hands-on support, and conducting viva examinations.

- Developed challenging programming questions and collaborated with the faculty to evaluate lab work and maintain accurate records.

PROJECTS

Neighborhood Watch Alert System (AWS Cloud Project)

June, 2025

Built a serverless AWS platform for real-time incident reporting, alerts, and community safety management using RDS, S3 with SSE-S3 encryption, and VPC endpoints for secure data access, while engineering a scalable, cost-optimized architecture with Lambda functions, API Gateway, EventBridge, and SNS for event-driven notifications, adhering to the AWS Well-Architected Framework.

May, 2025

Customized Resume & Cover Letter Generator (AWS Cloud Deployment)

Developed a web application using AWS services (Elastic Beanstalk, Lambda, S3, DynamoDB, SageMaker) to automate the creation of tailored resumes and cover letters by integrating Generative AI models for metadata extraction and document generation.

2024

SmartEval: Automated Evaluation of Textual Answer Scripts Using Transformer Models

Developed SmartEval, a web-based system for automated grading of handwritten answer scripts using transformer models and Google's Vision API, achieving high accuracy and efficiency. Currently in the final stages of publication by Springer Nature (2025).

March, 2025

Clothing Segmentation Using U-Net Neural Network

Implemented a U-Net deep learning model for semantic segmentation of clothing items from images, identifying and isolating specific garment regions. This model can be applied in fashion technology for virtual try-ons, automated clothing tagging, or enhanced image-based retail search systems.