MARK AONDOHEMBA ORTESE

EDUCATION

B.Tech. Computer Engineering **Expected June 2026**
C. V. Raman Global University, Bhubaneswar, Odisha, India

Technical Skills

Technical Skills: Hardware Design and Embedded Systems, Data Analysis, Computational Modeling, Machine Learning, Programming and Software Development, Cryptography, Printed Circuit Board (PCB) Design
Programming Languages: Java, Python, C, C++
AI & Computer Vision: TensorFlow/Keras, ResNet-50, Deep Neural Networks, OpenCV.
Tools, Databases, and OS: Cisco Packet Tracer, Altium Designer, KiCad, GitHub, Windows, Linux/Ubuntu, Supabase, VS Code.

ACADEMIC PROJECTS

Game Development (Alien Invasion) Using Python **July 2023**

- I designed and developed a 2D arcade-style game using the `pygame` library, creating smooth graphics, animations, and custom visual assets including sprites and backgrounds.
- I implemented core gameplay mechanics such as collision detection between players, bullets, and aliens, progressive difficulty levels with increasing enemy speed and wave complexity, and a real-time scoring system.
- I also integrated sound effects and background music to enhance the gameplay experience, providing audio feedback for actions such as shooting, collisions, and level progression, which improved overall user engagement.

Machine Learning-Based Disease Prediction Model

- As part of my 5th semester experiential learning project, i developed a healthcare-focused machine learning system to predict diabetes and heart disease using Python (Pandas, NumPy, Scikit-learn, TensorFlow) on the Pima Indian Diabetes and UCI Heart Disease datasets.
- Implemented and evaluated multiple classification models including Logistic Regression, Random Forest, Support Vector Machines, Decision Trees, and Neural Networks to identify high-risk patients and improve diagnostic support.
- I achieved up to **89% accuracy**, **87% precision**, **85% recall**, and an **F1-score of 0.86** through cross-validation and hyperparameter tuning; visualized key clinical risk factors to support model interpretability for healthcare decision-making.

RESEARCH & PUBLICATIONS

- Cross Domain Intrusion Detection Framework with ML and Pre-Trained DNN-Based Modular Ensemble for IoE Ecosystems

  Under Review

- Improving Military Object Detection Under Noisy Conditions Using Spatial Denoising and ResNet-50 Deep Features

  Accepted for publication in IEEE Xplore Proceedings — International Conference on Emerging Trends in Advancements and Applications of Computational Intelligence Techniques (ETAACT 2026)

PROFESSIONAL / WORK EXPERIENCE

Computer Engineer and Service Provider, Barnamfel Service Center, Nigeria
Feb 2020 – Nov 2022

- In this role, I provided personalized computer services and technical support to over 80 clients, focusing on improving system performance, reliability, and overall user satisfaction.
- I was also a Network Administrator for more than 12 organizations, where I was responsible for managing network infrastructure, ensuring secure and uninterrupted operations, and resolving connectivity and system-related issues.
- Through regular hardware and software installations, upgrades, and system configurations, I ensured peak system performance and long-term maintainability for both individual and corporate clients.

Data Science Intern, Krutanic Solutions, Bengaluru, India
June 2025 – August 2025

- During my 2 months internship, I applied statistical methods and machine learning algorithms to predictive and classification tasks, gaining practical exposure to feature selection, model training, performance evaluation, and data visualization.
- As part of my Data Science internship, I worked with real-world datasets and gained hands-on experience across the complete data analysis pipeline, including data collection, cleaning, preprocessing, and exploratory data analysis using Python.

ACTIVITIES

Leadership and Volunteering **Oct 2021 - Present**

- Established and nurtured a coding community at C.V. Raman Global University to facilitate technical resource sharing and collaborative innovation among students.
- Orchestrated alumni engagement initiatives, connecting over 400 students with mentors for professional guidance and career development
- Spearheaded fundraising campaigns that secured scholarships for school children and successfully met all event funding targets.
- Directed high-impact community service activities, including outreach to orphanages and hospitals, to promote social responsibility within the organization.

AWARDS, HONORS, GRANTS, & FELLOWSHIPS

- Study in India (SII) Scholarship **2022 - Present**
  Full Scholarship awarded for academic excellence
- Students Leadership Excellence Award, 2024.
- Outstanding Open Source Contributor Award, C.V. Raman Global University, 2024.