Eshwanth Karti T R

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EDUCATION

Amrita Vishwa Vidyapeetam, Amrita School of AI — **Expected Oct 2026**
B.Tech - Artificial Intelligence - CGPA - 8.38 — *Coimbatore, Tamil Nadu*

Sunbeam Hr Sec School — **2021 – 2022**
Higher Secondary Certificate (HSC) - 407/500 — *Vellore, Tamil Nadu*

Sunbeam Hr Sec School — **2019 – 2020**
Secondary School Certificate (SSC) - 524/600 — *Vellore, Tamil Nadu*

PROJECTS

Health Management System | Go, Python, Redis, Azure, PostgreSQL — **July 2024 – Nov 2024**

- Streamlined patient registration, appointment scheduling, and medical record management, improving efficiency by **40%**.
- Achieved **99.9% uptime** by integrating Redis caching and deploying with Azure for reliability.
- Added a CMS for administrators to simplify resource tracking and updates, cutting management time by **30%**.   GitHub for Backend | GitHub for Static Webpage.

TSP Visualizer | JavaScript, React.js, Leaflet, Ant Colony Optimization — **April 2024 – June 2024**

- Built an interactive TSP visualizer optimized for up to 20 citiesafter which it's not within the computationally feasible limits.
- Applied Ant Colony Optimization to achieve **35%** faster pathfinding over basic BFS/DFS methods. Github

GAN-based Image Swapper | Python, PyTorch, GANs — **March 2023 – July 2023**

- Created a GAN model for swapping faces in videos, achieving **94.5%** similarity in expressions and lighting consistency (measured by SSIM).
- Minimized detectable artifacts to **3.2% on average** across 100 test videos, down from a baseline of **12%**.

Waste Classification Using DL Models | Python, Flask, Pytorch — **April 2023 – June 2023**

- Conducted a comparative analysis of Xception, ResNet50, and VGG16 for waste classification, achieving **92% accuracy** with Xception.
- Built a Flask-based UI to allow users to upload images for waste type predictions and classification.

Cycle Management System | Java, Flask, JavaFx — **January 2023 – July 2023**

- Developed a campus bike-sharing system that reduced average travel time by **30%**.
- Implemented barcode-based ID checks with a **99.8%** success rate for user verification.

TECHNICAL SKILLS

Languages: Python, Java, C++, Go, C
Frameworks: TensorFlow, PyTorch, Keras, OpenCV, Next.js, Three.js
Web & Mobile: Flask, React, Flutter, Dart
Databases: Redis, PostgreSQL, Firebase
DevOps & Cloud: Docker, Kubernetes, GCP, Azure

Achievements

- Reached **1500+** Leetcode contest rating and completed over **570+** problems. [link]
- Earned **20+** Google Cloud Platform skill badges [link]
- Achieved **82nd place** in Amazon ML Hackathon.

EXTRACURRICULAR

- Web Development Role, Technical Team, IETE Coimbatore Chapter — 2024 – Present
- Member, Arcane System Reading Group — 2023 – Present