Adarsh S

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OBJECTIVE

Machine Learning Engineer specializing in computer vision and domain-adaptive object detection, with hands-on experience in YOLO-based models, adversarial learning, and attention mechanisms. Seeking to build robust real-world AI systems for challenging environments

EDUCATION

M.Sc. Computer Science (Machine Learning) — University of Kerala (2023 – 2025,CGPA:8.22/10)
B.C.A. (Computer Applications) — Asan Memorial Arts and Science College, Chennai (2019 – 2022, GPA:7.4/10)

TECHNICAL SKILLS

Programming:	Python, C#, SQL, HTML, CSS, JavaScript, Java
Machine Learning :	PyTorch, YOLO (v3, v8), Domain Adaptation, NLP, Recommendation Systems
Computer Vision:	OpenCV, Supervision, Torch, Grad-CAM Visualization
Tools & Platforms:	Ultralytics, Arduino, Tinkercad, GitHub, MongoDB, Flask, React.js, FastAPI

PROJECTS

- **F**OGADAPT-YOLO: Domain Adaptation for Object Detection using Cross-Attention Self-Attention.
- **C**ase Study – Faster R-CNN: Object detection in foggy/rainy weather for autonomous driving.
- **O**bject Detection Pipeline: YOLOv3 with Ultralytics,OpenCV for video-based detection.
- **M**ovie Recommendation System: Built hybrid recommender using TF-IDF,collaborative filtering.
- Fake News Classification: Applied TF-IDF cosine similarity for news credibility detection.
- TapTheBall – Android Game Development using Java and Android Open Studio.

EXPERIENCE

- Robotics Trainer Intern in STEM Robotics International, Trivandrum, Kerala (March 17, 2025 – May 31, 2025)
- Delivered and supported practical training sessions in robotics for school and college-level students.
- Worked with Arduino, Ultrasonic sensors, and motors to implement real-world robotics applications.
- worked in scratch software, MIT, Tinkercad.
- Assisted senior trainers in designing and conducting hands-on sessions on embedded systems and microcontroller programming.

CERTIFICATES

- NPTEL Certification in Data Science for Engineers(Jul – Sep 2024)
- ASP.NET Full Stack Developer – Luminar Technolab(20– march 2023)