V V V N Uday Aditya

3rd Year Student
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Linkedin | **Portfolio** | **GitHub**

Education

Amrita Vishwa Vidyapeetham — Chennai, Tamil Nadu
Computer Science with Artificial Intelligence Bachelor of Technology — October / 2022 - Current

Skills

Programming Languages:	Python, C, HTML, CSS, Java, Data Structures and Algorithms, Machine Learning, Transfer Learning
Tools / Platforms:	OpenCV, YOLO, EfficientNetB3, SQL, Explainable AI, Computer Vision

Projects / Open-Source

Real-Time Object Detection using Deep Learning | Link *Python, OpenCV, YOLO*
Developed a real-time object detection system utilizing YOLO and OpenCV, which detects and keeps track of objects in live video streams. Fine-tuned for high-performance real-time performance with the hardware acceleration, representing skills developed in deep learning and computer vision, in model optimization for object tracking in dynamic environments.

Chronic Kidney Disease Prediction using Explainable AI | Link *Python, XAI*
Developed an ML model that predicts chronic kidney disease from simulated data and implemented Explainable AI techniques to generate insights interpretable for healthcare professionals. Determined critical factors influencing predictions, adding transparency and improved decision-making to medical diagnostics.

Vehicle Anomaly Detection with Multi-Sensor Analysis | Link *Python, Edge Computing*
Implemented a machine learning-based system for detecting vehicle anomalies using multi-sensor data, including temperature, sound, and vibration. Enabled predictive maintenance by identifying potential issues early, improving vehicle performance, and reducing downtime.

Automated Multi-Label Skin Lesion Classification Using Transfer Learning and Advanced Data Augmentation | Link *Python, Matlab*
Implemented an automated multi-label skin lesion classification system using EfficientNetB3 and transfer learning with advanced data augmentation to reduce class imbalance. Optimized it with Adamax to reach a training accuracy of 99.95% and test accuracy of 93.46%. Evaluation is done based on precision, recall, and F1-score for early skin cancer detection.

Certifications

- Introduction to Artificial Intelligence - LinkedIn learning.
- Artificial Intelligence Fundamentals - **IBM - SkillsBuild**
- Python Essentials 1 - **Cisco**
- AWS Academy Cloud Foundations - AWS Academy.
- Cybersecurity Fundamentals - **IBM SkillsBuild**

Honors & Awards

- 3rd Prize at Tantrotsav' 2024 Tech Fest by Amrita Vishwa Vidyapeetham
- Designer Head, TRINETRA & PHOTOGRAPHY Club Led and managed design initiatives for college events and photography exhibitions.
- Cultural Head, Anandhamayi House Organized and led cultural activities, representing the house in intra-college competitions.
- Event Coordinator, Squid Game Tantrotsav 2024 Managed logistics and coordination for the event.