GULLAPALLI VENKAT

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SUMMARY

I am a Computer Science Engineering student. I am proficient in Python, Basic AI concepts. Through my academic career I have been taught data structures, coding and software design principles in depth, Within that reaches into more than undergraduate programs offer or even require for a complete understanding. I am intent on pushing innovation forward in the software engineering industry and integration of AI in UAVs.

EDUCATION

Bachelor of Computer Science: KL University
CGPA: 8.58 2022 - 2026

Intermediate: Sri Chaitanya Junior College
Percentage: 63% 2020 - 2022

CBSE Board: Dr. K.K.R's Gowtham
Percentage: 77% 2019 - 2020

SKILLS

Technical Skills Python, C, ReactJS, Flask, AI.
Soft Skills Team Management, Efficient Communication, Problem Solving

PROJECTS

Number Plate Detection System. Designed and implemented an AI-powered ANPR solution using OpenCV and EasyOCR to detect vehicles, extract license plate numbers, and log entries/exits with timestamps from live video feeds. Data was stored in-memory for high-speed access. Integrated a chatbot interface enabling users to query vehicle history in natural language, making the system ideal for parking management, toll monitoring, and surveillance applications.

Real-Time Human Detection System Developed a high-accuracy real-time human detection system leveraging the YOLO object detection framework. The model processes live video feeds to detect and track individuals with minimal latency. Optimized for varied environments and lighting conditions, the system supports applications in surveillance, crowd monitoring, and safety compliance. Implemented with Python, OpenCV, and YOLOv8, ensuring efficient frame processing and reliable detection performance.

Concrete Crack Detection using UAV and Deep Neural Networks Designed and implemented an AI-powered concrete crack detection system using UAV-captured imagery and deep neural network architectures such as CNN and ResNet. The pipeline processes aerial images to accurately detect and classify surface cracks, enabling proactive infrastructure maintenance. Integrated a Flask-based web interface for real-time result visualization, allowing users to upload UAV footage and receive annotated crack maps instantly. Optimized the model for high precision under varying lighting and surface textures, making it suitable for bridges, roads, and building inspections.

GLOBAL CERTIFICATIONS

- Azure AI-900
- AWS Cloud Practioner by Amazon Web Services
- Linguaskill Certification by Cambridge Assessment English

EXTRA-CURRICULAR ACTIVITIES

- Has ample experience in working with UAV , worked in some live drone projects
- Like to Integrate AI MODELS in UAVs

ACHIEVEMENTS

- Secured 4th Place – Ideathon 2023 Hosted by ACIC-KL Recognized among top innovators for presenting a practical and impactful tech solution during a competitive ideation challenge.
- Secured 3rd Place – Amaravati Drone Summit Awarded for excellence in drone innovation and presentation, competing among top teams in a state-level drone technology event.

LEADERSHIP

- Worked as President for GARUDA-Drone Technology Club for a span of 1.5 years and well versed in leadership and management skills.
- Worked as Chief Organizer of InnoFusion, a National-Level Hackathon – led end-to-end planning and execution, coordinated with sponsors, managed cross-functional teams, and delivered a successful event with high participant engagement.