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AVIN JOSEPH

PROGRAMING LANGUAGES:

- Python Programing Language and Libraries
- C programing and data structures

TECHNICAL SKILLS

- Artificial Intelligence
- Computer vison
- Deep learning
- Data Analytics
- Power BI
- HTML and CSS
- TensorFlow and PyTourch
- OpenCV, pandas, numpy
- Computer vision, Image processing

SOFT SKILLS

- Creative thinker
- Problem-solving skills
- Strong Analytic skills
- Project management
- Team coordination
- Presentation skills
- Strong Communication skills
- Ability to work both independently and in group.

LANGUAGE PROFICIENCY

- English: Full working proficiency
- Malayalam and Kannada: Native proficiency
- French: Elementary proficiency

ABOUT ME

I am a Master student seeking an opportunity to enhance my computer vision knowledge through a 4–6-month internship, also a Computer Science Engineering graduate specialized in Artificial Intelligence and currently pursuing a master's degree in Automotive Embedded Systems. I am looking for an opportunity to apply my skills and gain practical experience to fulfill my degree requirements.

EDUCATION

ESIGELEC , France and MGCER, India : [2023- Pursuing],
Grade: 8.12 CGPA [SEM 1],
Master of Science [M2]: **Automotive Embedded Systems**,

JAIN (Deemed to be University), Bangalore ,India [2019-23]
Grade: 8.02 CGPA,
Bachelor's: **Specialized in Artificial Intelligence (AI)**

PROJECTS

WIFI Bot Autonomous Robot: In this project, we are developing a WIFI Bot autonomous robot for object detection, tracking, and autonomous driving using YOLOv8 and Deep SORT algorithms. As part of a semester project at ESIGELEC, a Raspberry Pi is utilized as the central processing unit, enabling efficient execution of the algorithms and seamless communication with the robot's hardware components, ensuring real-time performance and reliability. In this project we enhanced the autonomous navigation capabilities, improved object recognition accuracy, and demonstrated advanced robotics integration.

Accident Detection on Express Highways Using AI: In this project, we develop an advanced accident detection system for express highways using AI, integrating the YOLOv8s object detection algorithm. YOLOv8s efficiently identifies potential accident scenes from real-time video feeds, enhancing detection accuracy. The model is trained and tested on a custom dataset that includes diverse accident and non-accident scenarios. Data augmentation and comprehensive evaluation metrics, such as Precision, Recall, F1-Score, and ROC-AUC, ensure robust performance. TensorFlow, Pandas, and OpenCV are utilized for model training, data manipulation, and image processing.

Person Tracking Using Robomaster EP core: For my second semester course project, I developed a person tracking and object detection system using the Robomaster EP Core and YOLOv8. The project involved navigating the robot from point A to B, detecting and avoiding obstacles using sensors and YOLOv8, and successfully tracking a person. We utilized Anaconda, Visual Studio Code, and the Robomaster SDK for implementation.