

MADADAPU HEMANTHSAI

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PROFESSIONAL EXPERIENCE

Project Lead , Indian Airforce Academy Developed a prototype i.e. FOD detection vehicle using an EV for wobble-free movement and Nvidia Jetson Xavier Nx in combination with e-con system cameras for live video processing and custom yolov8 with hyperparameter tuning and fine-tuning for the detection.	01/2024 – 06/2024 Hyderabad, India
INTERN , Sclanet 🔗 Deciding the image criteria, photos are gathered, labeled with the help of the LabelImg tool, and then stored on Amazon S3. Product data is gathered and stored in MongoDB concurrently.	03/2023 – 06/2023 USA
INTERN , H-Bots Built a greeting robot by combining OpenCV and facial recognition tools, putting SVMs to use, and adding IOT devices like temperature sensors, servo motors, Raspberry Pis, and Pi cameras.	03/2022 – 06/2022 Hyderabad, India

PROJECTS

Agriculture surveillance robot for detecting abnormalities in crop growth Developing a rover that keeps an eye on the crops, detects unhealthy crops, alerts the farmer to potential solutions, connects them to the closest test facilities, and periodically checks the crop growth for anomalies.	present
Driver assistance system 🔗 Developing a device that can monitor the road and the driver respectively, Key features are lane detection and tracking, traffic estimation, collision warning, SOS messages, Drowsiness detection and activity detection { Smoking / Drinking }.	11/2023 – 04/2024
Greeting Robot 🔗 Developed a Robot using face-recognition and OpenCV which recognizes the person and using pytsx3 library it greets the person with a handshake and checks the temperature.	03/2022 – 06/2022

EDUCATION

AIML Student Trainee , IIIT Hyderabad 🔗 Proficient	08/2023 – 04/2024
Bachelor's of Tefchnology in CSE-AI&ML , MLR Institute of Technology 🔗 8.65 C.G.P.A	2020 – 2024
Board Of Intermediate in MPC , Narayana Jr college 86% Percentage	2018 – 2020

RESEARCH WORK

Filed a patent , Crop monitoring with AI based autonomous farm rover 🔗
Filed a patent , Driver assistance system 🔗
Filed a patent , IOT based intelligent vehicle safety system 🔗
Filed a patent , IOT-sensor-based plant disease diagnosis 🔗
Filed a patent , prediction of birds and analysis of endangered bird species 🔗
Published a research paper , ICCCI 2023 (14 th International Conference on Computational Collective Intelligence) on an IOT and ML based interactive Robot 🔗

SKILLS

AIML Tech Stack Neural Networks, Deep Learning, Numpy, Pandas, sklearn, Keras, Tensorflow, OpenCV, CNN [ResNet, yolo family], Python, Git&Github, DSA, HTML5, MySQL, Computer Networks, Operating Systems
Edge Computing Proficient using Nvidia jetson xavier nx, carrier board - 202, JetPack - v5.1.2, raspberry pi 4&5

CERTIFICATES

• Certified for completing 6 months training program on AIML by IIIT Hyderabad 🔗	• Certified for Completing 1st level training program of AI-ML by SAE India 🔗	• Certified for course completion of Python for Machine Leaning by Great-Learning 🔗
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