Anirudh Sai Lanka

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Education

PES University, Btech. Computer Science and Engineering   2021 - 2025
- CGPA: 8.30
- **Specialization:** Artificial Intelligence, Machine Learning, Generative AI, Computer Vision

Narayana PU College, Class 12, Karnataka PU Board   2019 - 2020
- Grade: 81%

Experience

Summer Research Intern, CoDMAV PESU   Jun 2024 - Present
- Working on building an automated car park billing system. Will work on YOLO + Transformer OCR based Hybrid Architecture.
- Additionally, I learnt a lot about TesseractOCR, easyOCR etc. and many different types of Object Detection, Object Tracking and major Single Stage Object Detection Algorithms.
- Working under the best professors at PES University.

Head of Hospitality, MAAYA - PES University ECC   Sept 2023 - Jul 2024
- I was the Head of the Hospitality for the event, MAAYA.
- Got to learn a lot through my experience working there. People management and good communication are the most important skills.

Sponsorship and Marketing Team Member, Shunya PES University ECC   Jun 2023 - Jul 2024
- Shunya is the math club in PES University and I was a part of the Sponsorship and Marketing Team.

Projects

Personal Portflio Website   Github Repo Link
- This project aims to showcase my complete portfolio in an engaging manner, using a minimalistic design language.
- Tools Used: Javascript, NextJS framework, TypeScript, HTML, Framer Motion, Tailwind CSS

Fully Automated Car Park Billing System
- Developed a hybrid architecture comprising of YOLO V8 for object detection and Tr-OCR for OCR.
- Through this project I learnt a lot about some existing Object Detection and Tracking technologies and different kinds of OCR models available in the market.
- Tools Used: Python, PyTorch, OpenCV-Python, LLMs and Single Stage Object Detectors.

Emotion Based YouTube Song Detector   Github Repo Link
- Developed in Python, this project has the ability to read Emotions of people's faces using Facial and Hand Landmarks. Then, based on interpretation, it is able to recommend songs based on Emotion recorded and the user's artist and genre selections.
- Unfortunately, I am unable to host it on streamlit because it has to use camera functions and it is a privacy issue. The codes have been added to GitHub
- Tools Used: Python, OpenCV, Tensorflow, Keras

YTRC (Upcoming)
- Myself and my team are developing a deep learning project where we use Transfer Learning to convert YouTube Video's voices into Regional Languages.

- YouTube has a lot of content for education but it is majorly in English. This project will help a lot of under-privileged children learn from YouTube.
- Tools Used: Python, TTS systems.

Intrusion Detection System
- This is an IoT implementation. I had developed a home intrusion detection system which has the ability to call and send notifications to the user in case it detects an intrusion.
- It was a project involving hardware implementation and was made using the Arduino UNO as the brain. Other components like PIR sensor, SIM 800L module etc. were also used.
- Tools Used: Arduino IDE

Skills

Languages: Python (Proficient), Java (Moderate), JS, TypeScript, SQL.

Frameworks and Libraries: Pytorch, Numpy, Matplotlib, Tensorflow, Keras, NextJS, ReactJS, Tailwind-CSS, Langchain, My-SQL.

Soft Skills: English, Hindi, Telugu, Kannada, Tamil.

Fields of Interest: Software Development, Data Science, Machine Learning, Deep Learning, Generative AI, Computer Vision.